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C  
SVPPLEMENTVM  
EPHEMERIDVM,

ac Tabularum Secundorum Mobilium,  
IO. ANTONII MAGINI PATAVINI,  
Mathematicarum in almo Bononiensi  
Gymnasio Professoris,

IN QVO HABENTVR

Ratio, & methodus perfacilis promptissimè supputandi verum motum  
Solis, Lunæ, & Martis ex nouis Tabulis secundum Tychonicas  
obseruationes, nunc primum accuratè constructis.

Correctio aliqua motuum singulorum Planetarum, qui ex Ephemeridibus hætenus  
impressis colliguntur: additis simul Aequationum Planetarum nouis Tabulis  
ab ipso Auctore constructis, quæ ceteris compendio præstant.

Compendium calculandarum Eclipsium ex iam dictis Tychonicis Luminarium  
Tabulis, noua tamen correctione, & limitatione seruata.

*De Meridianorum differentia, cum responsione ad Origanum.*



VENETIIS, Apud Hæredem Damiani Zenarij. M DC XIV.

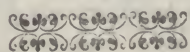
Permissu Superiorum, & Priuilegijs.







ILLVSTRISSIMO,  
AC DOCTISSIMO  
VIRO  
AGESILAO MARESCOTTO  
PATRITIO BONONIENSI.



Io. Antonius Maginus S. P. D.



TRIENNIVM *vix absolutum est, nobilissime, ac eruditissime vir, postquam tu iucundissimis, ac proficuis hisce Mathematicarum studijs operam assidue impendere coepisti, in quibus in virili licet hac tua aetate constitutus, domesticisque impeditus curis, nihilominus adeo ob miram ingenij tui perspicacitatem profecisti, ut non modo non me poenituerit sedulitatis, ac laboris qualiscumque mei in te privatim erudiendo, verum iucunditate potius non leui me affectum fuisse fateri cogar, quod talis mihi oblata fuerit occasio; nec immerito quidem: Quis enim pluribus longè an-*  
† 2 nis



nis hoc idem præstare potuisset? Verum enim verò, nec tu  
hoc contentus, me ultro hortari continuò non destitisti, ut  
quos in Astronomia, & Mathematicis labores superiori-  
bus annis astruere cœperim, quàmprimum perficerem, impri-  
misque tuo crebro hortatu mihi auctor esse voluisti, ut de  
novo Tabulas hæc Motus Martis meo Marte conderem, se-  
cundum recentes, scilicet Clarissimorum Virorum Tychonis  
Brahe, & Ioannis Kepleri hypothesēs, ac obseruationes: af-  
ferens constanter studiosis eas fore pergratas, si modo in lu-  
cem edantur una cum Luminarium Tabulis (præsertim ve-  
rò Lunæ, cuius calculus Tychoni non tam prolixus, quàm  
difficilis admodum est) in faciliorem formam à me redactis:  
Neque enim ulla spes est, doctissimum Keplerum suas Mar-  
tis Tabulas separatim publicaturum esse, antequam reliquo-  
rum Planetarum Tabulas omnino absoluat, cum illas suo  
egregio labori de Motu Martis, tametsi ad eius intelligen-  
tiam, & usum admodum necessarias, adiungere noluerit.  
Utinam verò postquam ab ipso Keplero absoluta fuerint,  
protinus ederentur; nec expectandum esset, ut ex iisdem  
prius construantur, vel ab eodem, vel à quopiam alio de  
ipsius consensu complurium annorum Ephemerides, eæque  
publicentur. Quamobrem tua tanti apud me fuit auctori-  
tas, ut quamuis circa Italiæ descriptionem omnino detine-  
rer, studeremque quàmprimum illam absolvere, ac publica-  
re; non potui tamen tibi morem non gerere, sed quàm liben-  
ter persuaderi passus sum ad illud onus suscipiendum, idque  
eò libentius feci, quò magis tua sic feliciter cœpta studia  
adiuuarem, atque etiam, ut experirer, an novæ Tychonis  
& Kepleri hypothesēs ad usum mearum generalium Tabu-  
larum

verò, nec tu  
stitisti, ut  
superiori-  
em, impri-  
li, ut de  
aderem, se-  
n Tychonis  
tiones: af-  
modo in lu-  
ferim ve-  
cus, quàm  
re redactis:  
suas Mar-  
am relquo-  
m illas suo  
s intelligen-  
re noluerit.  
e fuerint,  
t ex iisdem  
iam alio de  
es, eoque  
uit auctori-  
rino detine-  
ac publica-  
quam liben-  
tum, idque  
ta studiis  
e Tychonis  
dium Tabu-  
larum

203  
larum pro colligendis promptè singulorum Planetarum Acqua-  
tionibus, quas præteritis annis excogitaueram, accommoda-  
ri possent. Quæ potissima (ut verum fatear) fuit cau-  
sa, cur ego à Keplero postulauerim, ut mihi suas de Motu  
Martis Tabulas communicare vellet; non autem ad novas  
Ephemerides construendas, ut ille suspicatus est. Qua in  
sententia nihilominus si ille perstitisset, id oneris libenter su-  
scipissem. Ceterum illud in posterum studebo, ut reliquo-  
rum Planetarum hypothesès, ac calculus ad usum earun-  
demstrarum generalium Tabularum conformentur ad eun-  
dem modum, sicut in Marte præstitimus, cuius absolutas  
secundum nouam formam manuscriptas Tabulas adhuc refer-  
uamus oportuniore tempore studiosis communicandas. Por-  
rò in his Martis Tabulis, ac calculo nunc sequutus sum  
terminos hypothesium Kepleri, nec ad alias hypothesium for-  
mas, Ptolemaicam dico, ac Tychonicam illas aptandas tem-  
poris angustia duxi, facturus hoc in mearum Theoricarum  
noua reformatione, ubi illas, præter hanc usitatam Pto-  
lemaicam formam hætenus ab omnibus ferè comprobata, a-  
struemus quoque Systemati mundano de Copernico, & Ty-  
chonis sententia congruentes, quò pro virili omnibus satisf-  
fiat. Præterea, ut tibi in hoc quoque obsequer, publi-  
caui eruditissimam Kepleri epistolam illam, quam ad me an-  
no 1601. conscripsit, cum scilicet Tycho adhuc viueret;  
siquidem illa ipsa ad intelligentiam insignis illius operis de  
Motu Martis multum lucis afferret. Fateor autem inge-  
nuè, me ad illam tunc, ut par erat, non respondisse, cum  
suspicarer eam fuisse Tychonis hortatu ad me conscriptam,  
ut ea à me ille obtinere posset, quæ paulò ante ipsi Tycho-  
ni



ni obtuleram hac potissimum conditione, ut mihi verè com-  
mensurationes orbium communicare vellet, & hanc meam  
suspicionem auxit, quod nullum postea acceperim ab ipso Ty-  
chone responsum. Sequuta paucos ab hinc annos Tychonis  
morte, maximo cum Astronomiæ detrimento, dum expecto,  
ut monumenta illius in lucem prodeant, atque sic offeratur,  
mibi oportuna occasio in illis tractandis ad meas excogitatio-  
nes, ac inuentiones exornandas, hac spe frustratus, Astro-  
nomiæ studium non mediocri à me quondam diligentia cul-  
tum intermittere aliquantisper sum coactus. Iam igitur cum  
te suatore has meas de Motu Martis Tabulas ad exitum per-  
duxerim, simulatque illas, & Luminarium Tabulas unico  
volumine collectas typis mandauerim, tibi illud meritò dican-  
dum duxi, ut meum in te animi studium, constantemque er-  
ga te benevolentiam notam posteris facerem: non enim obscu-  
rum est, te in ea esse apud omnes existimatione, ac opinio-  
ne, ob variam singularum disciplinarum cognitionem, ac stu-  
dium, ut inter reliquos omnes eruditos huius præcipuè vir-  
bis Gymnasio percelebri ornatæ, mirificè resulgeas: neque ta-  
men tu hac insigni laude non mediocris eruditionis in disci-  
plinis, & humanioribus studijs contentus, sed parem etiam  
gloriam in armis tractandis adeò tibi conciliasti, ut à iu-  
uenili ætate præclari equitum ducis gradum promerueris, si-  
cut & in posterum quoque tibi maiores in re militari ad-  
seruantur honores, cum occasio urgebit. Taceo te è nobi-  
lissima ortum esse familia, quæ tum antiquitate, tum nume-  
ro præstantissimorum virorum, tam in literis, quàm in ar-  
mis ad omnem ætatem florentium inter primarias meritò  
connumeratur. Tuum itaque erit, nobilissime vir, hoc per-  
petuum

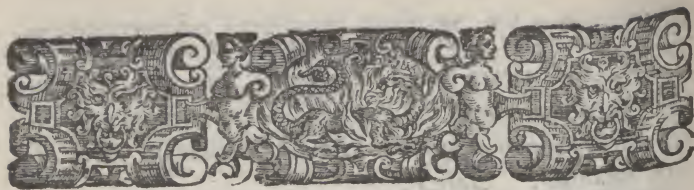


bi verè com-  
hanc meam  
ab ipso Ty-  
chos Tychonis  
um expecto,  
sic offeratur,  
excoꝑitatio-  
tus, Astro-  
igentia cul-  
n igitur cum  
exitum per-  
bular unico  
peritò dican-  
temque cr-  
enim obscu-  
ac opinio-  
nem, ac stu-  
r accipue cr-  
s: neque ta-  
nis in disci-  
parem etiam  
i, ut à in-  
nerueris, si-  
militari ad-  
eo te è nobi-  
tùm nume-  
quàm in ar-  
arias meritò  
vir, hoc per-  
petuum

petuum mei in te grati animi munusculum alacriter accipe-  
re, meque ex eorum numero existimare, qui, & tibi, tui-  
que consimilibus viris, qui Patriam suarum virtutum splen-  
dore exornare non desistunt, eternum perenneque decus af-  
ferre nitantur. Vale.

Bononiæ die 4. Octobris, ipsoque die D. Petronij huius  
Ciuitatis Patroni.





## AD AVCTOREM,

Pauli Antonij Ambrosij Vrbinatis.

SPHERARVM *motus sublimis in arte Maginus*  
*Dum complex, motus, innumerosque moues;*  
*Ecce homines plaudunt, Errantia sidera plaudunt,*  
*Namque solum, atque polum te decorasse vident.*

## AD AGESILAVM MARESCOTTVM

VIRVM ILLVSTRIS.

Ioannis Albani Bononiensis.

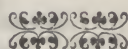
IVRE *tibi ætherea hæc sacrat monumenta Maginus*  
*Celesti quod sis præditus ingenio,*  
*Quod tua sit Virtus toto spectabilis Orbi,*  
*Viuida gesta viri, scripta linenda cedro,*  
*Quod studio doctus, stricto quod strenuus ense,*  
*Nobile quod patria diceris esse decus.*








M,  
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ET TABVLARVM  
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# COPIA.

G L I Eccellentifs. Signori Capi dell'Eccelfo Con-  
seglio di X. infraſcritti, hauuta fede dalli Sig. Refor-  
matori del Studio di Padoa , per relatione à loro fat-  
ta dalli due à queſto deputati, cioè dal Reuerendo Pa-  
dre Inquiſitor , & dal circ. & fedeliſſimo Secretario  
del Senato Gio. Franceſco Marchefini con giuramen-  
to , che nel Libro intitolato *Supplementum Ephemer-  
idum, ac Tabularum Secundorum Mobilium Io. Antonij Magini  
Patauini Mathematicarum in Almo Bononiensì Gymnaſio pro-  
feſſoris*, non ſi troua coſa contra le leggi, & è degno di  
ſtampa , concedono licenza , che poſſa eſſer ſtampa-  
to in queſta Citrà .

Dat. die 21. Martij 1613.

D. Franc. Correr }  
D. Franc. Diedo } Capi dell'Eccelfo Conſeglio di X.  
D. Aluiſe Duodo }

Illuſtriſs. Conſilij X. Secr.  
Barth. Cominus.

1613. adi 26. Marzo.  
Regiſtrato in libro à carte 147.

Io. Bapt. Breatto Offic.  
cont. Blaſph.



# IO. ANTONIVS MAGINVS

Beneuolo Lectori S.



IRABERIS forsan studiose Lector, quod Canones Eclipsium cum prioribus Canonibus supputandorum Planetarum non continuauerim, antequam Tabulas ipsorum motuum traderem, ut decebat: ac multo quidē magis, quod & epistolas illas interposuerim in hoc ipso Volumine, quā deberent potius in fine eiusdem reponi. Sed scias velim, me amicorum potius hortatu, quā mea voluntate Compendiū hoc supputandarum Eclipsium quatuor dierum spatio tunc temporis elaborasse, quando totum ferē ipsum opus fuit excusum unā cum illis epistolis. Nam etsi ceriō sciam, Eclipsium calculum debere coniungi cū Luminarium Tabulis; nihilominus supersedere nunc ab Eclipsium pertractatione edenda decreueram, cogitans potius alia & oportuniore forsan occasione id me esse praestitutum, utpote plus ocy nactus, ubi compendiosioribus & commodioribus Eclipsium Tabulis, quā fuerint hactenus usitata, hanc tractationem promouere potuissem. Interim igitur libenter hoc exiguo conatu nostro frui, & antequā hoc opus enoluas, hac paucula errata corrigere ne graueris. Vale.

## Errata impressionis in Canonibus sic corrigito.

| Pagina | Linea       | Errata      | Correcta            |
|--------|-------------|-------------|---------------------|
| I      | penult.     | praecedet   | praec. cadit:       |
| 8      | 5           | hæc         | hac                 |
| 9      | penult.     | hinc        | tunc                |
| 11     | 8           | ac 46       | cum 46              |
| 15     | 14          | à Solæ      | à Sole              |
| ibid.  | 25          | adseruata   | adseruanda          |
| 18     | 2           | relinquatio | relinquatur æquatio |
| 19     | 31          | secundum    | secundam            |
| ibid.  | 32          | per quem    | per quam            |
| 23     | 15          | fiunt       | fuerit              |
| 24     | } è regione | 8' 24"      | } arcalis           |
| 25     |             | 35' 18"     |                     |
| 26     |             | 7' 0"       |                     |
| 27     |             | 34' 44"     |                     |
|        |             | arcalis     | arcalis             |

## Errata in Tabulis.

| Pag.  |                               |                      |        |     |     |       |
|-------|-------------------------------|----------------------|--------|-----|-----|-------|
| 38    | è regione anni 1602           | lege                 | 10     | 53  |     |       |
| ibid. | è regione anni 1662           | lege                 | 27     | 17  |     |       |
| 41    | è regione anni 1560           | sub 2. col. lege     | 9      | 19  | 37  |       |
| 42    | è regione anni 1587           | sub 2. col. lege     | 9      | 9   | 12  |       |
| 43    | è regione anni 1610           | sub vlt. col. lege   | 9      | 9   | 39  | 16 27 |
| 44    | è regione anni 1652           | sub vlt. col. lege   | 9      | 10  | 28  | 14 55 |
| 48    | die 14. Maij                  | lege                 | 44"    | 37" |     |       |
| 56    | è regione gr. 18 50'          | sub col. nu. 4. lege | 1      | 22  | 8   |       |
| ibid. | è regione gr. 19 30'          | sub ead. col. lege   | 1      | 21  | 3   |       |
| 58    | è regione gr. 7               | sub col. 2. lege     | 100741 |     |     |       |
| 61    | die 3. Octob.                 | lege                 | 10     | 18' | 17" |       |
| 74    | 1501.                         | sub col. 8. lege     | 18'    | 32" |     |       |
| ibid. | 1513                          | sub 1. col. lege     | 11     | 10  | 37' |       |
| 76    | 1570                          | sub 1. col. lege     | 29"    | 9"  |     |       |
| 77    | 1608                          | sub vlt. col. lege   | 4      | 7   | 16' | 33"   |
| ibid. | 1609                          | sub ead. col. lege   | 3      | 17  | 56  | 41    |
| 78    | 1655                          | sub vlt. col. lege   | 9      | 28  | 15' | 26"   |
| 79    | 1694                          | sub 8. lege          | 8      | 23  | 55  | 24    |
| 80    | die 20                        | sub 1. col. lege     | 8      | 23  | 31' |       |
| 84    | die 27                        | sub 2. col. lege     | 4      | 13  | 37' |       |
| 86    | die 14                        | sub 1. col. lege     | 2      | 2   | 34  |       |
| 90    | die 16                        | sub 1. col. lege     | 8      | 29  |     |       |
| 98    | è regione gr. 27 30'          | sub 2. col. lege     | 4      | 7   | 56  |       |
| 99    | è regione gr. 0 40'           | col. vlt. lege       | 5      | 13  | 2   |       |
| 102   | è regione gr. 22 20'          | col. 4. lege         | 5      | 10  | 33  |       |
| 107   | è regione nu. 26              | col. 4. lege         | 9      | 35  |     |       |
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| 112   | è regione nu. 17              | col. 3. lege         | 6      | 23  |     |       |
| 115   | è regione nu. 28              | col. 8. lege         | 8      | 44  |     |       |
| ibid. | tota vlt. col. caret minutis. |                      |        |     |     |       |
| 116   | è regione nu. 6               | col. 2. lege         | 13     | 32  |     |       |
| ibid. | è regione nu. 7               | col. 3. lege         | 14     | 42  |     |       |
| 119   | è regione nu. 28              | col. 5. lege         | 29     | 10  |     |       |
| 120   | è regione nu. 7               | col. 8. lege         | 0      | 39  |     |       |
| 156   | è regione nu. 28              | col. 2. lege         | 2      | 20  | 42  |       |
| 163   | 1594                          | sub col. 8. lege     | 1      | 16  | 39  | 49    |
| 166   | 1667                          | sub col. 2. lege     | 5      | 15  | 0   | 0     |
| 170   | die 23. & 24. Augusti         | sub 8. lege          | 27     | 27  |     |       |
| 174   | è regione gr. 8               | sub col. 3. lege     | 166345 |     |     |       |



175 è regione gr. 20  
 177 è regione nu. 28  
 183 1572  
 ibid. 1580  
 ibid. 1582  
 ibid. 1584  
 ibid. 1586  
 ibid. 1612  
 189 1644  
 192 1501  
 ibid. 1503  
 193 1587  
 ibid. 1588  
 ibid. 1589  
 198 1621

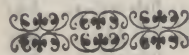
sub pen. col. lege 148719  
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 sub 2. col. lege 7 16 12 55  
 sub ead. col. lege 10 24 5 52  
 sub ead. col. lege 11 18 33 7  
 sub 1. col. lege 8 29 11 25  
 sub 2. col. lege 1 7 9 32  
 sub 1. col. lege 8 29 52 21  
 sub 2. col. lege 1 25 46 34  
 sub 2. col. lege 2 26 3 23  
 sub ead. col. lege 5 26 39 53  
 sub 1. col. lege 2 16 25 53  
 sub ead. col. lege 2 16 26 44  
 sub ead. col. lege 2 16 27 35  
 sub 2. col. lege 8 1 12 24

### Errata in Compendio Eclipsium.

| Pag.  | Lin.  | Errata       | Correcta     |
|-------|---|--------------|--------------|
| 270   | 2   | discrepabant | discrepabunt |
| 272   | 24  | habeat       | habent       |
| 273   | 9   | horum        | harum        |
| ibid. | 11  | dictorum     | dictarum     |
| 274   | 16  | allata       | ablata       |
| 281   | 2   | cum aliud    | ad aliud     |
| 283   | 30  | orientem     | trientem     |
| 288   | 6   | obscurando   | obseruando   |
| 289   | 2   | meridiani    | meridiana    |
| 290   | sub 4. col. nu. 4. frontalis defunt minuta, quæ faciliè suppleri possunt. |              |              |

### Errata in ultimo Capite de Meridianorum differentia.

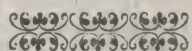
|     |    |              |              |
|-----|----|--------------|--------------|
| 298 | 27 | expositam    | exposita     |
| 300 | 30 | longitudinis | longitudines |
| 309 | 10 | palcebatur   | polcebatur   |







IOANNIS ANTONII  
MAGINI PATAVINI  
CANONES AD VSVM  
SEQUENTIVM TABVLARVM.



CANON PRIMVS.

*De vera Aequinoctiorum præcessionem secundum TychoNICAM rationem  
ad hæc nostra proxima secula.*



E calculo veri motus octauæ sphaeræ, seu cum Copernico veræ præcessionis Aequinoctiorum tractauimus Canone decimonono nostrarum Tabularum Secundorum Mobilium iuxta Copernici hypothesen, & Prutenicas Tabulas. Verum quia Copernicus in hoc calculo valdè à scopo recessit, vt videre est apud TychoNem in Progymnasmatibus, cum inæqualitatem motus in fixis astruxerit valdè insignem, quam idem Tycho, aut nullam, aut saltem perexiguam esse obseruationibus & rationibus suis deprehendit. Idcirco nos Aequinoctiorum præcessionem, seu stellarum fixarum motum TychoNICUM ad hos duos proximos annorum centenarios damus in tabulam extensum, ab anno scilicet 1500. vsque ad annum 1700. in quibus non contemnenda cernitur differentia à Copernico calculo, vt quæ ad 38. minuta augeatur propè annos 1700. Quare mox alteram quoque tabellam ponimus exhibentem huiusmodi differentiam, quæ inter vtramque Aequinoctiorum præcedet, Copernicæ scilicet, & TychoNICAM, quæ posterior tabella incipit ab anno 1561. quo

A vterque

uterque calculus concordabat, post quem semper præcessio Aequinoctiorum Tychonica excedit Copernicanam. Vnde hac vna de causa numeri motuum calculi Copernici, & Prutenicarum, ac nostrarum Secundorum Mobilium tabularum deficiunt magis ac magis à vero post dictum annū. Qui defectus continuò paulatim adeò augetur, vt ad annū Domini 1700. ad duas tertias gradus ferè accedat. Vt autem præcaueri possit hic lapsus, seu hæc differentia in motibus Planetarum, qui ex tabulis Prutenicis, seu nostris colliguntur, opus est, vt relicta Aequinoctiorum præcessione Copernici hætenus vsitata, vtamur hac nostra tabula veræ præcessionis Aequinoctiorum Tychonica.

## CANON SECVNDVS.

*De corrigendis Planetarum motibus ex Ephemeridibus nostris, vel aliorum ob dictam varietatem, quam efficit Aequinoctiorum præcessio.*

**D**IXIMVS in Supplementis Isagogicarum Ephemeridum nostrarum præteritis annis editis, singulorum Planetarum loca, quæ tum ex nostris, tum ex aliorum Ephemeridibus, quæ Copernicæum calculum sequuntur, colliguntur, deficere à vero aliquot minutis ob octauæ sphaeræ motum, quem nimis tardum Copernicus supposuit, seu ob Aequinoctiorum præcessionem, vt cum ipsomet Copernico loquar, nimis lentam, quæ ferant verissimæ eximij viri Tychonis Brahe obseruationes. Qui sanè lapsus cum singulis quatuor annis coaugmentetur vno primo scrupulo à Copernici temporibus, inde fit, vt excreseat in non contemnendam differentia, quæ adhuc etiam maior in posterum euadet. Hac itaque de causa damus tabellam, cui titulus est, *Tabula differentie præcessionis Aequinoctiorum Tychonica à Copernica*, ex qua patet differentia inter vtrâque Aequinoctiorum præcessionem horum insignium Astronomorum, quæ profectò addenda est motibus Planetarum Copernicæis, vt secundum hanc rationem correctæ euadant. Illud tamen aduertendum est, me præteritis annis consimilem tabellam in Supplemento Isagogicarum Ephemeridum tradidisse, quam ex Ephemeris motus Solis Tychonici ad annum 1587. constructa, & mihi ab ipsomet Auctore transmissa, extraxi antequam Progymnasmata in lucem prodirent. In qua sanè tabula posui varietatem motus octauæ sphaeræ decem minutis maiorem, quàm reuera sit, putans præcessionem Aequinoctiorum ad annum Domini 1522. à Copernico esse rectè constitutam, cum tunc decem scrupulis exorbitaret, & anno tantum 1561. congruit. Non tamen putet quis nostram illam tabellam ibi traditam reducendi locum Solis Ephemeridum nostrarum ad Tychonicum calculum esse frustratoriam ac vanam: quia quot minutis abundat variatio motus octauæ sphaeræ dictæmet primo editæ tabulæ, totidem desunt in altera



# Ac Tab. Secundorum Mobilium.

3

altera æquationis tabula ob varietatem Apogæi & medij motus Solis illi adiuncta, pro recta vtriusque compensatione. Nam reuera Radix medij motus Solis calculi Tychonici superat radicem eiusdem motus Copernici ad decem ferè minuta. Quare sequendo illam rationem reuocandi calculum Solis Copernicæum ad Tychonicum, nusquam differt à vero duobus scrupulis. Quæ exigua differentia idèd euenit, quia calculus Solis Tychonicus tunc usurpatus innitebatur theoriæ Solari absque æquante circulo, & supposita simplici Solis Eccentricitate, vt habetur in Progymnasmatibus Tychonicis. Sed posterior Solis Tychonicus calculus habetur ex nostris Solaribus tabulis in hoc volumine cõtentis secundum postremam correctionem Appendicis dictorum Progymnasmatum. Vt exempli gratia. Sint corrigenda loca Planetarum ad annũ Domini 1613. die primo Februarij, quo hæc scribimus, relicto Sole, de quo separatim agemus. Cum dicto anno colligo ex tabula differentie, seu variationis præcessionis Aequinoctiorum minuta 14. ferè computatis 36. secundis pro vno minuto, & hæc addita locis trium superiorum Planetarum constituunt ea correctæ. Sed in Venere, Mercurio, & Luna, alia insuper decem minuta sunt semper addenda, quæ proueniunt ob motum Solis medium, cuius radix Tychonica totidem minutis superat radicem Copernicæam, siquidem medius Solis motus communis est Veneri & Mercurio. Pariter quoque medius motus componitur ex medio Solis motu, & ex elongatione Lunæ à Sole. Quare ob has correctiones in his tribus inferioribus Planetis addenda erunt hoc anno minuta 24. & prodibunt singulorum Planetarum loca sic ad dictum diem primum Februarij 1613.

|   |    |    |   |
|---|----|----|---|
| ☉ | 2  | 58 | ☿ |
| ♂ | 17 | 10 | ♂ |
| ♂ | 25 | 26 | ♂ |
| ♂ | 12 | 58 | ♂ |
| ♀ | 10 | 37 | ♀ |
| ♀ | 22 | 12 | ♀ |

## CANON TERTIVS.

Verum Solis locum ex Tychonicis tabulis ad Venetum Meridianum accommodatis depromere.

PRÆSTANTISSIMVS vir Tycho Brahe tradit in primo suorum Progymnasmatum tomo rationem Solaris cursus per simplicem Eccentricitatem deferentis, quam statuit particularum 3584. qualium semidiameter Eccentrici habet 100000. recensens causas, cur tantopere lapsus sit Nicolaus Copernicus, in motu Solis ob eius Eccentricitatem non rectè elicitam, ac ob promotionem Apogæi Solis ultra duos penè gradus quàm

A 2 ferat

ferat eius verus situs. Cumque secundum hanc hypothesim Braheus ipse dederit æquationis Solis tabulam, qua hæcenus tum ipse, tum alij quæque vti sunt, cognoueritque postmodum in theoria Solari opus esse æquante circulo, sicut & in reliquis Planetis, ac bisectione ipsius adinuentæ Eccentricitatis, ut patet ex Appendice dictorum Progymnasmatum, ut sit deferentis Eccentricitas tantummodo particularum 1792. aut 1800. Nos idcirco æquationum Solis tabulam de nouo condere voluimus, quo studiosis rem gratam faceremus, atque etiam tabulam distantiarum Solis à terra, quæ & ipsa admodum euariat à Tychonica, quas quidem tabulas damus in hoc volumine vnà cum tabulis æqualium motuum ipsius Solis à Tychone mutatis, & ad Venerum Meridianum accommodatis. Quarum tabularum praxis hæc esto pro computando vero Solis loco.

Primo collige ad propositum temporis momentum ex iam dictis tabulis radices motuum Solis, Apogæi inquam, & longitudinis ab Aequinoctio ad annum completum: consequenterque eosdem motus colliges ad diem propositum, & ad horas, ac minuta. Quibus omnibus in vnâ summam reductis, prodibit tam verum Apogæum, quam media Solis longitudo ab Aequinoctio ad propositum momentum. Secundo auferes Apogæum à media longitudine, & relinquetur Anomalia Solis annua, seu Argumentum medium, cum quo ex æquationum Solarium tabula elicies æquationem Solis auferendam ante semicirculum Anomalie, & addendam post simplici longitudini Solis, ut resultet verus Solis locus.

*Primum Exemplum.*

Vt si queratur verus locus Solis ad annum Domini 1555. die 14. Iunij, hora 6. min. 57'. p.m. absoluendus erit calculus in hunc modum.

| S  | P  | i  | '' |                                       |
|----|----|----|----|---------------------------------------|
| 3  | 5  | 5  | 15 | R. anni 1554. completi.               |
|    |    |    | 20 | Dies 14. Iunij.                       |
| 3  | 5  | 5  | 35 | Apogæum Solis.                        |
| 9  | 19 | 4  | 47 | R. anni 1554. completi.               |
| 5  | 12 | 37 | 55 | Dies 14. Iunij.                       |
|    |    | 14 | 47 | hor. 6.                               |
|    |    | 2  | 20 | min. 57.                              |
| 3  | 1  | 59 | 49 | Longitudo Solis ab Aequinoctio.       |
| 3  | 5  | 5  | 35 | Apogæum subtrahendum.                 |
| 11 | 26 | 54 | 14 | Anomalia annua, seu Argumentum Solis. |
|    | 0  | 6  | 35 | Æquatio correctæ addenda.             |
| 3  | 2  | 6  | 24 | Verus locus ☉                         |

*Aliud*



# Ac Tab. Secundorum Mobilium.

## Aliud Exemplum.

Quærat locus ☉ ad annum Domini 1650. die 15.  
Februarij in meridie.

| S  | P  | I  | II |                                       |
|----|----|----|----|---------------------------------------|
| 3  | 6  | 16 | 30 | R. anni completi 1649.                |
|    |    |    | 6  | Dies 15. Februarij.                   |
| 3  | 6  | 16 | 36 | Apogæum Solis.                        |
| 9  | 10 | 12 | 5  | R. anni 1649. completi.               |
| 1  | 15 | 20 | 23 | Dies 15. Februarij.                   |
| 10 | 25 | 32 | 28 | Longitudo Solis ab Aequinoctio.       |
| 3  | 6  | 16 | 36 | Apogæum subtrahendum.                 |
| 7  | 19 | 15 | 52 | Anomalia Solis annua, seu Argumentum. |
|    | 1  | 34 | 29 | Aequatio addenda.                     |
| 10 | 27 | 6  | 57 | Verus Solis locus.                    |

## CANON QVARTVS.

Eundem Solis verum locum ad quodlibet momentum temporis, ab anno 1500.  
vsque ad annum 1700. ex Ephemeridibus motus Solis quatuor  
particularium annorum exacte elicere.

**E**PHEMERIDES motus Solis ad hos quatuor annos 1600. 1601. 1602.  
& 1603. mirè satisfaciunt pro motu Solis colligendo ad vnum sæcu-  
lum tam ante, quàm post, adhibita nimirum correctione per tabellâ, quæ  
mox post dictas Ephemerides sequitur, & aded quidem exactè prodibit  
locus Solis ex tali supputatione, sicut etiam ex ipsismet Solaribus tabu-  
lis, de quibus Canone superiore tractauimus. Vnde non opus est, verum  
locum Solis Tychonicum ad tot annos producere, quando pro reliquis  
planetis Ephemerides Tychonicæ nõ construuntur, veluti Origanus ina-  
niter fecit, confundendo Tychonicum luminarium calculum cum Coper-  
nicæ: Nam eadem ferè promptitudine ex his quatuor annis habebitur  
verus locus Solis, quam ex illius particularibus Ephemeridibus, vt nunc  
exemplis constabit: imo exactior nonnihil erit calculus noster, cum fun-  
detur in Solari hypothefi præsupponente æquantem circulum in Sole,  
quàm ex Ephemeridibus Origani simplicem Theoriam à Tychone pri-  
mo traditam sequentibus. Oblato itaque temporis momento quocunque  
intra hos duos annorum centenarios recurre ad Ephemerim motus So-

A 3 lis con-

lis consimilis anni, quoad bissextilis rationem, hoc est, si oblatum annus fuerit bissextilis, colliges locum Solis ad propositum diem & horam anni bissextilis 1600. Si fuerit primus post bissextilem, vel secundus, vel tertius, accipies pariter primum post bissextilem 1601. vel secundum 1602. vel tertium 1603. Postea vide differentiam tui propositi anni ab hoc assumpto anno, quæ semper erit secundum progressionem quaternarij numeri, & cum hac annorum differentia ingredi tabellam æquationis veri loci Solis, quæ continet in fronte duodecim Signa in tribus graduû ordinibus distributa, procedendo scilicet per decem gradus veri loci Solis, vnde obseruabis proximiores gradus, nam in area habebis æquationem veri loci Solis iam supputati, addendam eidem post radicem, & auferendam ante annum ex quo locum ipsum Solis supputasti, atque sic conficies verum locum Solis ad vnguem, perinde, ac si ex Astronomicis motuum Solis tabulis collectus fuisset, quemadmodum ex his exemplis certior fies.

Exemplum primum. Sit colligendus verus locus Solis ad annum Domini 1555. die 14. Iunij, h. 6. 57'. post merid. Cum hic annus sit tertius post bissextilem, accipio ad dictum momentum verum Solis locum ex Ephemeridi anni 1603. qui similiter tertius est post bissextilem, notando quod cû illa dies sit iuxta stylum veteris Calendarij, congruet cum die 24. Iunij anni correcti. Quare prodit locus Solis in gr. 2. 29'. 4". 60. sublato deinde anno 1555. proposito ab anno 1603. radicali, sunt intermedij anni 48. cum quibus sub initio 60, à quo noster locus Solis parum distat, colligo æquationem minut. 22'. 40". quæ sublata à loco Solis prius supputato, relinquit verum locum Solis ad oblatum tempus in gr. 2. 6'. 24". 60, sicut etiam ex tabulis proprijs motus Solis Canone 3. fuit elicitus.

Sit secundo quærendus locus Solis ad annum 1650. die 15. Februarij, hora meridiæ. Quoniam hic annus secundus est post bissextilem, idcirco accipio locum Solis ad consimilem diem anni 1602. nempe gr. 26. 45'. 5". 30. cumque sit intercapdo, seu differentia annorum 48. cum hac colligo sub gr. 20. 30. æquationem min. 21'. 49". addendam. Sed quia locus Solis est gr. 27. ferè 30, idè addo alia tria secunda, quod sub gr. 0. 10. æquatio sit min. 21'. 53". & resultat locus Solis gr. 27. 6'. 57". 30, congruens prorsus cum loco, quem tabulæ ostendunt.

#### CANON QVINTVS.

*Locum ☉ verum ex nostris tabulis secundum Tyconicas hypothesas elaboratis promptissime adinuenire.*

**Q**UANTVM laboris ac tædij afferat studiosis intricata, ac perplexa Lunarum cursus forma à Tychone proposita, non paucis notum est, quoniam



niam multiplices operationes, quæ in huiusmodi calculo concurrunt, quæ-  
uis exercitatum in Astronomicis calculis ac oculatum non semel fallere  
possunt. Quocirca non potui me continere, ut studiosis rem gratam face-  
rem, quominus plures dies pro reductione huius Lunaris calculi ad com-  
pendiosorem methodum absumerem; neque ambigo omnes, qui Ty-  
chonicas tabulas Lunaris motus euoluunt, multum admiraturos esse, quo-  
modo laboriosissimus hic calculus Tychonicus potuerit ad tantam faci-  
litatem reduci, ut promptissimè ac nullo ferè labore locum Lunæ verum  
ad quodcunque tempus nobis prodat hac obseruata forma.

Primo quidem ex Canone 3. habeas ad datum temporis momentum  
verum locum Solis, obseruando æquationem temporis iuxta rationem  
inæqualitatis dierum naturalium, cuius æquationis tabella habetur in P ri-  
mo nostro Supplemento Ifagogicarum Ephemeridum, nisi talem corre-  
ctionem ob exiguam differentiam in loco Solis negligere vuleris, præ-  
sertim cum pro annuis reuolutionibus Solis, commodius sit habere locum  
Solis inæquatam, ut aliàs diximus.

Secundo, ex Lunaribus tabulis ad idem temporis momentum correctum  
ob rationem inæqualitatis dierum naturalium ad Lunæ motum propriè  
accommodatam iuxta sequentem Canonem, si tibi placuerit, vel etiam ad  
tempus ipsum inæquatam, excipe longitudinem Lunæ ab æquinoctio  
simplicem, Anomaliam ☉ mediam, & motum nodi Borei simplicem,  
seu ☊.

Tertio, cum Anomalia ☉ media elice ex prima æquationum Luna-  
rium tabula æquationem Epicycliam, cum qua iuxta tituli sui indica-  
tionem corriges tam longitudinem Lunæ simplicem, efficiendo longitu-  
dinem ☉ ab Aequinoctio æquatam, quam Anomaliā eiusdem mediam,  
conficiendo Anomaliam æquatam, seu Argumentum verum.

Quarto, aufer verum motum Solis à longitudine Lunæ ab Aequino-  
ctio æquata, & relinquetur distantia vera ☉ à Sole, quæ si excederit sex  
signa, excessus supra semicirculum dicetur distantia ☉ ab opposito loco  
Solis. Cum qua quidem distantia Lunæ à Sole, vel ab eius opposito, con-  
fugies ad tabulam cui titulus est, *Æquationis Eccentricitatis compositæ*, in-  
grediendo cum ea in fronte, quando minor est tribus signis, & à latere si-  
nistro sumendo signa & gradus Anomalie Lunæ æquata. Sed in calce ta-  
bulæ accipe distantiam ☉ à Sole, vel eius opposito, cum fuerit maior tri-  
bus signis, vsque ad sex completa signa, tuncque obseruanda est Anoma-  
lia ☉ æquata in signis & gradibus à latere dextro dictæ tabulæ, & vtro-  
que modo ex area depromes æquationem Eccentricitatis, quam dicimus  
compositam, quia constat ex æquatione Eccentricitatis, & variatione cen-  
tri. Quæ quidem addenda est, vel auferenda, iuxta suum titulum in capite,  
vel calce tabulæ notarum à longitudine Lunæ ab Aequinoctio æquata; ut  
proueniat verus Lunæ locus in propria orbita, qui postmodum ad Ecli-  
pticam

latus annus  
horam an-  
cundus, vel  
undū 1602.  
ni ab hoc as-  
ternarij nu-  
æquationis  
ibus graduū  
ri loci Solis,  
æquationem  
& auferen-  
ue sic confi-  
omicis mo-  
templis cer-

annum Do-  
us sit tertius  
lis locum ex  
m, notando  
cum die 24.  
60, sublato  
ermediij an-  
trum distat,  
is prius sup-  
r. 2. 6'. 24".  
elicitus.

Februarij,  
lem, idcirco  
gr. 26. 45'.  
cum hac col-  
ed quia locus  
ub gr. 0. X,  
7". ꝛꝛ, con-

ypothefes

perplexa Lu-  
um est, quo-  
niam



pticam referendus est, ut dicemus infra. Ceterum si contigerit reperiri in area tabulae literam A, vel S, scias tunc fieri mutationem affectionis ipsius æquationis, & faciendam esse additionem si fuerit litera A, & subtractionem, si fuerit litera S.

Notandum quoque est, quod in tabula hæc æquationis Eccentricitatis posuimus secunda scrupula, usque ad 16. gradum distantie Lunæ à Sole, vel ab eius opposito, quia illa tabula pars usum habet in supputatione Eclipsium, & conjunctionum atque oppositionum luminarium, in quibus exactior requiritur calculus. Ultra illos 16. gradus distantie ☾ à Sole, non opus est tanta præcisione in secundis scrupulis.

*Exemplum.*

Queratur Lunæ locus ad annum Domini 1555. die 14. Iunii, hora 6. min. 57. post meridiem, quo temporis momento supra Canone 3. eliciamus verum locum Solis in gr. 2. 6'. 24". ☿. Ecce calculus.

| S  | G  | 1' | 2" | 3"                                 | 4" |
|----|----|----|----|------------------------------------|----|
| 9  | 17 | 28 | 16 | R. anni 1554.                      |    |
| 0  | 14 | 06 | 19 | Dies 14. Iunij.                    |    |
|    | 3  | 17 | 39 | hor. 6.                            |    |
|    | 0  | 31 | 18 | min. 57.                           |    |
| 1  | 5  | 3  | 32 | Longitudo ☾ ab Aequinoctio.        |    |
| 7  | 2  | 28 | 58 | R. anni 1554.                      |    |
| 11 | 25 | 43 | 26 | Dies 14. Iunij.                    |    |
|    | 3  | 17 | 58 | hor. 6.                            |    |
|    | 0  | 31 | 2  | min. 57.                           |    |
| 7  | 8  | 59 | 18 | Anomalia ☿ media, seu Argumentum.  |    |
|    | 3  | 12 | 19 | Æquatio Epicyclica addenda.        |    |
| 7  | 11 | 11 | 37 | Anomalia ☿ æquata.                 |    |
|    | 5  | 24 | 51 | Longitudo ☿ ab Aequinoctio æquata. |    |
|    | 2  | 6  | 24 | Verus locus Solis subtr.           |    |
| 10 | 6  | 9  | 27 | Distantia ☿ à Sole.                |    |
| 4  | 16 | 9  | 27 | Distantia ☿ ab opposito eiusdem.   |    |
|    | 0  | 24 |    | Æquatio Eccentricitatis subtr.     |    |
| 1  | 7  | 51 | 51 | Verus ☿ locus in propria orbita.   |    |



## CANON SEXTVS.

*De æquatione temporis respectu motus Lunar.*

**T**ESTATUR Brahæus in Progymnasmatibus, Lunæ motum particulari indigere æquationum tabula, ob inæqualitatem dierum naturalium ab altera eiusdem generis diuersa, quæ usurpari solet in Sole ac reliquis Planetis, & illa quidem habetur in nostro Supplemento Isagogicarum Ephemeridum ad mentem eiusdem Brahæi. In hac autem subsequente Lunæ motui destinata sit ingressus cum vero Solis loco in capite tabulæ, & à sinistro latere: vel in calce, & à dextro latere reperto, & quod in area excerpitur addendum vel auferendum est à tempore apparente, ut in tempore æquale conuertatur colligendis motibus aptum. Quod si hac temporis æquatione neglecta supputare libuerit Lunæ motum, corrigendus ille erit postea ob hanc causam, addendo illi vel auferendo dimidium ipsius æquationis. Ut in superiore Lunati exemplo, cum sit locus  $\odot$  gr. 2. 6'. 59, recurro ad sequentem tabellam, & video respondere temporis æquationem m. 0'. 45". addendam ipsi tempore proposito, ut in tempore æquale conuertatur pro colligendo  $\odot$  motu: sed quia supputauimus ipsam  $\odot$  absque aliqua temporis correctione, ideo opus est corrigere ipsummet Lunæ locum, quod fiet addendo dimidium ipsius æquationis, nempe 23". cō quia singulis duobus minutis temporis Luna peragrat vnum ferè minutum in Zodiaco, & sic prodibit Luna in gr. 7. 52'. 14". 8.

E conuerso, si æquale tempus ad inæquale & apparens fuerit reducendum, contrarium titulum seu affectionem ipsius æquationis obseruare conuenit, id est, quando tabula habet titulum additionis: hinc auferri debet ipsa æquatio, & quando habet titulum subtractionis addenda erit.

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|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---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| 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 851 | 852 | 853 | 854 | 855 | 856 | 857 | 858 | 859 | 860 | 861 | 862 | 863 | 864 | 865 | 866 | 867 | 868 | 869 | 870 | 871 | 872 | 873 | 874 | 875 | 876 | 877 | 878 | 879 | 880 | 881 | 882 | 883 | 884 | 885 | 886 | 887 | 888 | 889 | 890 | 891 | 892 | 893 | 894 | 895 | 896 | 897 | 898 | 899 | 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 | 910 | 911 | 912 | 913 | 914 | 915 | 916 | 917 | 918 | 919 | 920 | 921 | 922 | 923 | 924 | 925 | 926 | 927 | 928 | 929 | 930 | 931 | 932 | 933 | 934 | 935 | 936 | 937 | 938 | 939 | 940 | 941 | 942 | 943 | 944 | 945 | 946 | 947 | 948 | 949 | 950 | 951 | 952 | 953 | 954 | 955 | 956 | 957 | 958 | 959 | 960 | 961 | 962 | 963 | 964 | 965 | 966 | 967 | 968 | 969 | 970 | 971 | 972 | 973 | 974 | 975 | 976 | 977 | 978 | 979 | 980 | 981 | 982 | 983 | 984 | 985 | 986 | 987 | 988 | 989 | 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 | 1000 | 1001 | 1002 | 1003 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 | 1010 | 1011 | 1012 | 1013 | 1014 | 1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 1301 | 1302 | 1303 | 1304 | 1305 | 1306 | 1307 | 1308 | 1309 | 1310 | 1311 | 1312 | 1313 | 1314 | 1315 | 1316 | 1317 | 1318 | 1319 | 1320 | 1321 | 1322 | 1323 | 1324 | 1325 | 1326 | 1327 | 1328 | 1329 | 1330 | 1331 | 1332 | 1333 | 1334 | 1335 | 1336 | 1337 | 1338 | 1339 | 1340 | 1341 | 1342 | 1343 | 1344 | 1345 | 1346 | 1347 | 1348 | 1349 | 1350 | 1351 | 1352 | 1353 | 1354 | 1355 | 1356 | 1357 | 1358 | 1359 | 1360 | 1361 | 1362 | 1363 | 1364 | 1365 | 1366 | 1367 | 1368 | 1369 | 1370 | 1371 | 1372 | 1373 | 1374 | 1375 | 1376 | 1377 | 1378 | 1379 | 1380 | 1381 | 1382 | 1383 | 1384 | 1385 | 1386 | 1387 | 1388 | 1389 | 1390 | 1391 | 1392 | 1393 | 1394 | 1395 | 1396 | 1397 | 1398 | 1399 | 1400 | 1401 | 1402 | 1403 | 1404 | 1405 | 1406 | 1407 | 1408 | 1409 | 1410 | 1411 | 1412 | 1413 | 1414 | 1415 | 1416 | 1417 | 1418 | 1419 | 1420 | 1421 | 1422 | 1423 | 1424 | 1425 | 1426 | 1427 | 1428 | 1429 | 1430 | 1431 | 1432 | 1433 | 1434 | 1435 | 1436 | 1437 | 1438 | 1439 | 1440 | 1441 | 1442 | 1443 | 1444 | 1445 | 1446 | 1447 | 1448 | 1449 | 1450 | 1451 | 1452 | 1453 | 1454 | 1455 | 1456 | 1457 | 1458 | 1459 | 1460 | 1461 | 1462 | 1463 | 1464 | 1465 | 1466 | 1467 | 1468 | 1469 | 1470 | 1471 | 1472 | 1473 | 1474 | 1475 | 1476 | 1477 | 1478 | 1479 | 1480 | 1481 | 1482 | 1483 | 1484 | 1485 | 1486 | 1487 | 1488 | 1489 | 1490 | 1491 | 1492 | 1493 | 1494 | 1495 | 1496 | 1497 | 1498 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---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## Supplementum Ephemeridum,

Tabula Aequationis temporis in ☉

|    | ☿        | ♊  | ♈ | ♉  | ♊ | ♈  | ♉  |
|----|----------|----|---|----|---|----|----|
|    | Subtrahe |    |   |    |   |    |    |
|    | I        | II | I | II | I | II |    |
| 0  | 0        | 0  | 8 | 25 | 8 | 47 | 30 |
| 1  | 0        | 20 | 8 | 36 | 8 | 37 | 29 |
| 2  | 0        | 40 | 8 | 45 | 8 | 26 | 28 |
| 3  | 0        | 59 | 8 | 55 | 8 | 15 | 27 |
| 4  | 1        | 19 | 9 | 4  | 8 | 3  | 26 |
| 5  | 1        | 39 | 9 | 12 | 7 | 50 | 25 |
| 6  | 1        | 59 | 9 | 19 | 7 | 36 | 24 |
| 7  | 2        | 18 | 9 | 26 | 7 | 22 | 23 |
| 8  | 2        | 38 | 9 | 32 | 7 | 7  | 22 |
| 9  | 2        | 57 | 9 | 37 | 6 | 52 | 21 |
| 10 | 3        | 16 | 9 | 42 | 6 | 36 | 20 |
| 11 | 3        | 35 | 9 | 46 | 6 | 20 | 19 |
| 12 | 3        | 53 | 9 | 50 | 6 | 3  | 18 |
| 13 | 4        | 12 | 9 | 52 | 5 | 46 | 17 |
| 14 | 4        | 30 | 9 | 54 | 5 | 28 | 16 |
| 15 | 4        | 47 | 9 | 56 | 5 | 10 | 15 |
| 16 | 5        | 5  | 9 | 56 | 4 | 51 | 14 |
| 17 | 5        | 22 | 9 | 56 | 4 | 32 | 13 |
| 18 | 5        | 38 | 9 | 55 | 4 | 12 | 12 |
| 19 | 5        | 55 | 9 | 53 | 3 | 53 | 11 |
| 20 | 6        | 11 | 9 | 51 | 3 | 33 | 10 |
| 21 | 6        | 26 | 9 | 48 | 3 | 12 | 9  |
| 22 | 6        | 41 | 9 | 44 | 2 | 51 | 8  |
| 23 | 6        | 56 | 9 | 40 | 2 | 31 | 7  |
| 24 | 7        | 10 | 9 | 34 | 2 | 9  | 6  |
| 25 | 7        | 24 | 9 | 28 | 1 | 48 | 5  |
| 26 | 7        | 37 | 9 | 21 | 1 | 27 | 4  |
| 27 | 7        | 50 | 9 | 14 | 1 | 5  | 3  |
| 28 | 8        | 2  | 9 | 6  | 0 | 43 | 2  |
| 29 | 8        | 14 | 8 | 57 | 0 | 22 | 1  |
| 30 | 8        | 25 | 8 | 47 | 0 | 0  | 0  |
|    | Adde     |    |   |    |   |    |    |
|    | ☿        | ♊  | ♈ | ♉  | ♊ | ♈  |    |



## C A N O N   S E P T I M V S .

*Verum locum nodorum Lunæ, seu ☾, & ☿ ad datum tempus explorare.*

**M**OTVS nodorum ☾, quem hætenus Astronomi omnes Ptolemæū sequuti æquabilem esse putarunt, hoc est singulo die in signorum præcedentiam scrupulis tribus cum vñdecim ferè secundis promoueri; Tycho Brahe anomalum, seu irregularem esse obseruationibus suis cognouit, affirmans maximam efficere variationem ad integrum gradum, ac 46. primis scrupulis à loco eius medio ex tabulis elicitò. Qui profectò motus verus nodorum tali via à nobis adinuenietur. Ad datum tempus sume primo radicem annuam motus ☾, idest ad annum completum: deinde mox secundo collige eundem motum ad diem propositam ac ad horam & minutum, coniungendo scilicet motum hunc dierum, horarum, & minutorum insimul, & quod prodit subtrahe à dicta radice annua, & relinquetur motus medius ipsius ☾ ad momentum propositum. Tertio cum vera distantia ☾ à Sole, vel ab eius opposito, elice æquationem ☾ ex propria tabella, & latitudinem ☾ maximam adseruandam pro definienda vera latitudine. Hanc verò nodorū, seu ☾ æquationem adde, vel aufer à medio motu ☾, prout eius titulus indicabit, & sic defines verum eius locum in Zodiaco.

Ut in nostro assumpto exēplo Lunaris motus ad annū Domini 1555. die 14. Iunij, h. 6. 57'. p. m. inuestigo locum ☾ tali forma calculi.

| S  | P  | I  | "  |                                  |
|----|----|----|----|----------------------------------|
| 3  | 1  | 13 | 1  | R. anni 1554. completi ☾         |
| 0  | 8  | 44 | 15 | Motus ☾ ad diem 14. Iunij.       |
|    |    |    | 48 | ad horas 6.                      |
|    |    |    | 8  | pro min. 57.                     |
| 0  | 8  | 45 | 11 | Aggregatum huius motus sub. à R. |
| 2  | 22 | 27 | 50 | Medius motus ☾ ad dictum tempus. |
| 10 | 6  | 9  | 27 | Distantia ☾ à ☼                  |
|    | 1  | 40 | 10 | Æquatio nodi, seu ☾ add.         |
|    | 5  | 11 | 1  | Latitudo Lunæ maxima.            |
| 2  | 24 | 8  | 0  | Verus locus ☾.                   |

## CANON OCTAVVS.

*Latitudinem ☉ veram Tychonica ratione adinuenire.*

**A**FFIRMAT Braheus in suis Progymnasmatibus, Lunæ latitudinem maximam non esse graduum quinque inuariabiliter, vt hætenus ab omnibus Astronomis vnanimi consensu creditum fuit, cum in nouilunijs ac plenilunijs tantum ad hanc quantitatem quamproximè accedat, vbi quidem ab Ecliptica ipsa Luna grad. 4. & min. 58. cum semisse expatiatur: Sed tamen in quadraturis cum Sole hanc elongationem excedit ad trientem gradus, vt fiat grad. 5. min. 17. & semis. Quo fit, vt aliaratione ac methodo latitudo particularis ☉ sit indaganda, quam per vfitatam latitudinis Lunæ tabellam, quæ hætenus vsurpara fuit. Quare cum necesse erit veram Lunæ latitudinem cognoscere ad datum tempus, opus est, vt primo ex præcedente Canone habeas verum motum ☉, ac etiam latitudinem ☉ maximam, quam supra cum vera distantia ☉ à Sole eliciuisti. Deinde sublato vero motu ☉ à vero Lunæ loco in propria orbita, relinquetur motus latitudinis cōæquatus, quem Argumentum latitudinis Lunæ dicimus. Huius Argumenti signa comperias in fronte tabulæ, & à latere sinistro gradus: vel in calce tabulæ signa, & à latere dextro gradus, & in area sub columna destinata latitudini maximæ, habebis latitudinem ipsam quæsitam: Sed cum latitudo maxima notetur singulis quinijs scrupulis, oportebit per partem proportionalem ipsam latitudinem emendare. Hæc autem collecta latitudo Septentrionalis erit, vel Meridiana secundum indicationem tituli ad hærentis ipsi signo.

Vt si queratur Lunæ latitudo ad nostrum assumptum tempus, quo Lunæ motum eliciuimus. Quoniam igitur datus fuit locus ☉ gr. 24. 8. II. si auferatur à vero Lunæ loco in propriâ orbita, qui Canone 6. dabatur in gr. 7. 52'. 14". 8, relinquetur argumentum latitudinis Lunæ sign. 10. gr. 13. 44'. Ex superiore autem Canone dabatur latitudo ☉ maxima gr. 5. 11'. Itaque sumendo in calce tabulæ latitudi-

nis ☉ Tychonica signa 10. cum gr. 13. 44'. sub

columna latitudinis maximæ gr. 5. 10.

excipio latitudinem Lunæ quæ-

sitam gr. 3. 44'. ne-

glectis

secundis, quam dico

esse meridia-

nam.

CA-



## CANON NONVS.

*De reductione veri loci Lunæ in propria orbita ex tabulis Lunaribus  
supputati ad Eclipticam.*

**L**ocus  $\odot$  verus, qui ex calculo tabularum Lunarum emanat iuxta formam Canonis quinti, intelligitur esse in plano orbitæ ipsius Lunæ, quæ ad Eclipticam inclinata est. Quo fit vt ad Eclipticam ipsum sit reducendum per subsequentem tabellam, in quam fit introitus cum vero, & coæquato motu latitudinis Lunæ, quem Argumentum latitudinis dicimus, cuius inuentio patet Canone octauo, quærendo scilicet signum in fronte, & à latere sinistro gradus: vel sumendo signum infra & à dextro latere gradus, & ex area obrinebis æquationem loci orbitæ adiectiuam, vel ablatiuam à loco Lunæ in orbita eius supputato, vt ad Eclipticam reducatur.

*Exemplum.*

Cum supra Canone quinto sit exploratus Lunæ locus in orbita, & sequente Canone sexto sit correctus obrotationem peculiarem ipsi Lunæ ibi expressam in gr.  $7.52'.14''$ .  $\delta$ . Cumque detur ex Canone octauo Argumentum latitudinis sign. 10. gr.  $13.44'$ . cum hoc ingressus sequentem tabulam colligo æquationem loci orbitæ min.  $6'.59''$ . addendam, vnde euadet verus locus Lunæ ad Eclipticam reductus gr.  $7.59'.13''$ .  $\delta$ .

Quòd si vice versa locum Lunæ per instrumenta obseruatum in Ecliptica, ad propriam orbitam reuocare volueris, contrarium ipsis titulis facito ad vnguem.

|  |     |   |    |   |   |   |   |   |   |   |    |    |    |    |    |
|--|-----|---|----|---|---|---|---|---|---|---|----|----|----|----|----|
| Diagramm orbisam reducere volueris, contrarium |     |   |    |   |   |   |   |   |   |   |    |    |    |    |    |
| uam.   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 2  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 3  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 4  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 5  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 6  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 7  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 8  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 9  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 10   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 11   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 12   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 13   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 14   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 16   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 17   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 18   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 19   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 20   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 21   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 22   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 23   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 24   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 25   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 26   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 27   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 28   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 29   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 30   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 31   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 32   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 33   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 34   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 35   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 36   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 37   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 38   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 39   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 40   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 41   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 42   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 43   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 44   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 45   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 46   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 47   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 48   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 49   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 50   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 51   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 52   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 53   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 54   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 55   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 56   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 57   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 58   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 59   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 60   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 61   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 62   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 63   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 64   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 65   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 66   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 67   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 68   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 69   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 70   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 71   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 72   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 73   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 74   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 75   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 76   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 77   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 78   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 79   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 80   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 81   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 82   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 83   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 84   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 85   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 86   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 87   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 88   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 89   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 90   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 91   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 92   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 93   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 94   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 95   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 96   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 97   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 98   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 99   | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 100  | 100 | 2 | 10 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |

Supplementum Ephemeridum,  
Tabella reductionis loci veri ☉ ad Eclipticam .

| Argum. | 0        |    |  | 1  |    |  | 2 |    |  | Argum. |
|--------|----------|----|--|----|----|--|---|----|--|--------|
|        | 6        |    |  | 7  |    |  | 8 |    |  |        |
|        | Subtrahe |    |  |    |    |  |   |    |  |        |
|        | I        | II |  | I  | II |  | I | II |  |        |
| 0      | 0        | 0  |  | 6  | 6  |  | 6 | 5  |  | 30     |
| 1      | 0        | 15 |  | 6  | 12 |  | 5 | 57 |  | 29     |
| 2      | 0        | 30 |  | 6  | 18 |  | 5 | 48 |  | 28     |
| 3      | 0        | 45 |  | 6  | 24 |  | 5 | 39 |  | 27     |
| 4      | 0        | 59 |  | 6  | 29 |  | 5 | 30 |  | 26     |
| 5      | 1        | 13 |  | 6  | 35 |  | 5 | 21 |  | 25     |
| 6      | 1        | 27 |  | 6  | 40 |  | 5 | 12 |  | 24     |
| 7      | 1        | 42 |  | 6  | 44 |  | 5 | 1  |  | 23     |
| 8      | 1        | 56 |  | 6  | 47 |  | 4 | 51 |  | 22     |
| 9      | 2        | 10 |  | 6  | 51 |  | 4 | 40 |  | 21     |
| 10     | 2        | 24 |  | 6  | 54 |  | 4 | 29 |  | 20     |
| 11     | 2        | 38 |  | 6  | 56 |  | 4 | 18 |  | 19     |
| 12     | 2        | 52 |  | 6  | 57 |  | 4 | 7  |  | 18     |
| 13     | 3        | 6  |  | 6  | 58 |  | 3 | 55 |  | 17     |
| 14     | 3        | 19 |  | 6  | 59 |  | 3 | 42 |  | 16     |
| 15     | 3        | 32 |  | 7  | 0  |  | 3 | 31 |  | 15     |
| 16     | 3        | 43 |  | 6  | 59 |  | 3 | 18 |  | 14     |
| 17     | 3        | 56 |  | 6  | 58 |  | 3 | 5  |  | 13     |
| 18     | 4        | 8  |  | 6  | 57 |  | 2 | 51 |  | 12     |
| 19     | 4        | 19 |  | 6  | 56 |  | 2 | 38 |  | 11     |
| 20     | 4        | 30 |  | 6  | 54 |  | 2 | 23 |  | 10     |
| 21     | 4        | 41 |  | 6  | 51 |  | 2 | 9  |  | 9      |
| 22     | 4        | 52 |  | 6  | 47 |  | 1 | 55 |  | 8      |
| 23     | 5        | 2  |  | 6  | 44 |  | 1 | 41 |  | 7      |
| 24     | 5        | 12 |  | 6  | 40 |  | 1 | 26 |  | 6      |
| 25     | 5        | 22 |  | 6  | 35 |  | 1 | 12 |  | 5      |
| 26     | 5        | 31 |  | 6  | 28 |  | 0 | 58 |  | 4      |
| 27     | 5        | 40 |  | 6  | 23 |  | 0 | 45 |  | 3      |
| 28     | 5        | 49 |  | 6  | 17 |  | 0 | 30 |  | 2      |
| 29     | 5        | 58 |  | 6  | 11 |  | 0 | 15 |  | 1      |
| 30     | 6        | 6  |  | 6  | 5  |  | 0 | 0  |  | 0      |
| Latit. | Adde     |    |  |    |    |  |   |    |  | Latit. |
|        | II       |    |  | IO |    |  | 9 |    |  |        |
|        | 5        |    |  | 4  |    |  | 3 |    |  |        |



## CANON DECIMVS.

*Methodus adinueniendi verum locum Martis ex nostris tabulis, secundum  
Tychonis & Kepleri hypotheses, ac observationes.*

**P**RIMO quidem ex tabulis motuum Solis ad datum tempus habeas verum eius locum per Canonem tertium, & distantiam eiusdem à terra, quæ obtinetur ingrediendo tabulam distantiarum Solis à terra cum Anomalia Solis.

Secundo collige ad idem tempus ex tabulis mediorum motuum Martis motum longitudinis eius ab Aequinoctio Apogæum, & locum Nodi Borei, seu ♄ draconis ♄.

Tertio aufer motum Apogæi ♄ ab eiusdem motu longitudinis, & relinquetur Anomalia Eccentrici. Cum qua ex priore æquationum Martis tabula sumes æquationem centri cum suo titulo, & distantiam Martis à Solæ, quæ intelligitur esse numerata ab ipso Solis centro vsque ad ♄, in diametro scilicet orbitæ ipsius Martis. Hanc verò centri æquationem aufer à motu longitudinis Martis in priore semicirculo Anomalie Eccentrici, & adde in posteriore, prout tituli indicant, & efficies verum locum Martis Eccentricum, idest eum, quem designat recta è corpore Solis per Planetæ corpus ad Primum Mobile porrecta, in orbita tamen eius. Hic locus Eccentricus in vñtatis tabulis secundum Ptolæmaicam formam, vocatur verus locus centri Epicycli.

Quarto subtrahæ locum nodi Borei, seu ♄ ♄ à dicto loco Martis Eccentrico in Planetæ orbita, & relinquetur distantia eius à nodo ipso Boreo. Cum qua in posteriore æquationum Martis tabula colligetur sub prima columna inclinatio loci ipsius orbitæ ab Ecliptica adseruata pro latitudine inuenienda, & sub secunda columna æquatio loci Eccentrici in scrupulis secundis, quæ addenda vel auferenda est iuxta indicationem sui tituli à loco Martis Eccentrico in propria orbita, vt is euadat in Zodiaco plano cognitus. Sic quoque è regione eiusdem gradus distantie à nodo elicies sub integro signo Anomalie Eccentrici numerum particularem, quæ semper auferenda sunt à distantia Martis à Sole prius inuenta, vt prodeat distantia eiusdem à Sole sumpta in diametro Eclipticæ, vsque ad punctum illud, super quod Mars perpendiculariter imminet.

Quinto comparabitur locus Martis Eccentricus in Zodiaco cum propinquiore loco Solis, vel eius opposito, & vtriusque differentia erit angulus Anomalie commutationis seu orbis, & Kepleri dicitur etiam angulus ad Solem, & in vñtatis tabulis Astronomicis solet vocari Argumentum Planetæ verum; quod semper remanere debet minus semicirculo.

Sexto cum hoc angulo Anomalie commutationis, & cum distantia Solis à

lis à terra primo adinuenta, atque etiam cum distantia Martis à Sole lupari-  
 rius correcta in Eclipticæ diametro, quæ duæ distantia comprehendunt  
 dictum angulum in triangulo obliquangulo rectilineo, adinueniemus  
 angulum æquationis orbis vel Argumenti Planetæ in hunc modum iux-  
 ta 16. propositionem nostri libri de Planis Triangulis. Fiat igitur ut ag-  
 gregatum ambarum distantiarum ad eorundem differentiam, ita tangens  
 dimidij dictæ Anomalie ad tangentem, cuius angulus sublatus à dicto  
 dimidio producit angulum æquationis quæsitæ. Quæ sanè æquatio ad-  
 denda est vero loco Martis Eccentrico in Ecliptica in priore semicirculo  
 Anomalie commutationis, seu Argumenti veri, idest, quando facta  
 fuit subtractio loci ♀ Eccentrici à vero loco ☿, & auferenda in poste-  
 riore, nempe quando vice versa fuit subductus verus locus ☿ à loco ♀  
 Eccentrico, ut prodeat verus locus Martis in Zodiaco Primi Mobilis.

*Exemplum primum.*

Proponatur adinueniendus locus verus Martis ad annū Domini 1582.  
 hic 26. Decembris, h. 8. cum dimidia, quo temporis momento fuit per in-  
 strumenta obseruatus à Tycho Brahe in gr. 17.40'.30". Cum latitu-  
 dine Boreali grad. 4. min. 7. Primo itaque reduco hoc tempus ad meridia-  
 num Vraniburgi additione vndecim minutorum, ut euadant h. 8. m. 41.  
 nam quando Vraniburgi est hora 8. cum dimidia, tunc Venetijs, vbi hæc  
 nostræ tabulæ accommodatæ sunt, erit hora 8. min. 41'. Ad hoc igitur tem-  
 poris momentum colligo ex tabulis motuum Solis & Martis medios mo-



| S  | P  | I  | "  |                              |                               |
|----|----|----|----|------------------------------|-------------------------------|
| 9  | 15 | 3  | 4  | Verus locus Solis.           | g. 1 "                        |
| 4  | 18 | 39 | 16 | R. anni 1581. completi.      | 1 35 13 Inclinatio loci.      |
|    |    | 1  | 16 | Motus ad diē 26. Decembr.    |                               |
| 4  | 28 | 40 | 22 | Apogæum ☿.                   |                               |
| 8  | 29 | 39 | 55 | R. anni 1581. completi.      |                               |
| 6  | 8  | 39 | 55 | Dies 26. Decembr.            |                               |
|    |    | 10 | 29 | hor. 8.                      |                               |
|    |    |    | 53 | min. 41.                     |                               |
| 3  | 8  | 31 | 12 | Lōgit. media ☿ ab Aequin.    |                               |
| 4  | 28 | 40 | 22 | Apogæum subtr.               |                               |
| 10 | 9  | 50 | 50 | Anomalīa Eccentrici.         |                               |
|    | 7  | 34 | 47 | Aequatio centri add.         |                               |
| 3  | 16 | 5  | 59 | Locus ☿ Eccētr. in orbita.   |                               |
| 1  | 16 | 31 | 32 | Locus nodi Borei, seu Ω sub. |                               |
| 1  | 29 | 34 | 27 | Dist. loci Eccentr. ☿ à Ω.   | Dist. ☿ à ☼ — 162064          |
|    |    |    | 46 | Aequatio loci Eccentr. sub.  | 61                            |
| 3  | 16 | 5  | 13 | Locus ☿ Eccētr. in Eclipt.   | Dist. ☿ à ☼ corre. 162003     |
| 9  | 15 | 3  | 4  | Verus locus ☼                | 98228                         |
| 5  | 28 | 57 | 51 | Anom. orbis, seu commu-      | Aggregatum — 260231           |
|    |    |    |    | tationis.                    | Differentia 63775             |
| 2  | 29 | 28 | 55 | Dimidium, cuius tangens      | 11059553                      |
| 2  | 27 | 53 | 20 | * angulus subtrahend.        | Prod. ex mult. 705322992575   |
|    | 1  | 35 | 35 | Aequatio orbis add.          | Partire per aggregatum & col- |
| 3  | 17 | 40 | 48 | Verus locus ☿.               | liges 2710372, cuius angulus  |
|    |    |    |    |                              | gr. 87.53'. 20". *            |

Hic noster computus consentit cū obseruatione, sed ex suis tabulis Keplerus supputauit ipsum ☿ in gr. 17.44'. 19''. 66. Vnde conijcio meas esse fortasse exactiores.

Memento quod poteris effugere tediosam diuisionem numeri producti ex multiplicatione tangentis in differentiam, reiiciendo ab ipso quinque ultimas notas, vt relinquatur 7053230, postea per secundum Compendium Primę Analogię cap. 3. Primi libri nostri Primi Mobilis conuerres aggregatū iam dictum 260231, quod pro diuisione habuisti, tanquam si esset secans secunda in sinum primum 38427. nam ipsi aggregato tanquā secanti secundæ congruit arcus gr. 2.235'. 55'', cuius sinus primus est 38427. per quem sinum vbi multiplicaueris numerū superiorem 7053230, post diuisionem per integrum sinū produces eandē tangentem 2710344.

B cuius

# 18 Supplementum Ephemeridum,

cuius angulus est gr. 87. 53'. 20". sicut supra, qui rejici debet à dimidio Anomalie orbis, ut relinquatio orbis.

## Exemplum secundum.

Detur nunc alia eiusdem Tychonis observatio de ♄, in qua occurrat anomaliam orbis esse in posteriore semicirculo, quod evenit quando vice versa subtrahitur verus locus ☿ à loco ♄ Eccentrico, ut remaneat Anomalia orbis numerata in præcedentia, minor semicirculo. Sit igitur annus 1591. 28. Iunii anni veteris, & 8. Iulij anni correcti, h. 10. m. 24. in meridiano Vraniburgi, seu h. 10. m. 35. in meridiano Veneto, quo temporis momento observatus fuit Mars in gr. 21. 10'. + cum latitudine gr. 4. 45. Australi. Sic igitur perficietur supputatio.

| S | P  | I  | II |  |                                 |
|---|----|----|----|--|---------------------------------|
| 4 | 28 | 49 | 18 | R. anni 1590.  | 8. ' "                          |
|   |    |    | 35 | Dies 8. Iulij.   | 1 26 52 Incl. loci.             |
| 4 | 28 | 49 | 53 | Apogæum ♄.   |                                 |
| 6 | 7  | 2  | 38 | R. anni 1590.  |                                 |
| 3 | 9  | 2  | 57 | Dies 8. Iulij.   |                                 |
|   |    | 13 | 6  | hor. 10.   |                                 |
|   |    |    | 46 | min. 35.   |                                 |
| 9 | 16 | 19 | 27 | Longitudo ♄ ab Aequin.   |                                 |
| 4 | 28 | 49 | 53 | Apogæum.   |                                 |
| 4 | 17 | 29 | 34 | Anomalia Eccentrici.   |                                 |
|   | 7  | 48 | 14 | Aequatio centri sub.   |                                 |
| 9 | 8  | 31 | 13 | Locus ♄ Eccentric. in orb.   |                                 |
| 1 | 16 | 37 | 25 | Nodus Boreus, seu ♄ ♄.   |                                 |
| 7 | 21 | 53 | 48 | Distantia à ♄.   | Distantia ♄ à ☿ 142590          |
|   |    |    | 52 | Aequatio loci Eccentr. sub.  | Aequatio dist. sub. 46          |
| 9 | 8  | 30 | 21 | Locus ♄ Eccentr. in Eclip.   | Dist. ♄ à ☿ corr. 142544        |
| 3 | 15 | 50 | 54 | Verus locus ☿  | Distantia ☿ à terta 101757      |
| 5 | 22 | 39 | 27 | Anom. orbis in præc.   | Aggregatum 244301               |
| 2 | 26 | 19 | 43 | Dimidium, cuius tangens  | Differentia 40787               |
| 2 | 8  | 58 | 36 | * Angulus sub.   | 1558466                         |
| 0 | 17 | 21 | 7  | Aequatio orbis sub.  | Prod. ex mult. 63565152742      |
| 8 | 21 | 9  | 14 | Verus locus ♄ propius accedens ad observationem, quam calculus Kepleri, ex quo pag. 263. de motu ♄ prodit in gr. 21. 4'. 21". +. | Num. ex diuis. p. diés 260192   |
|   |    |    |    |  | Huius arcus gr. 68. 58'. 36". * |

CA -



## CANON VNDECIMVS.

*Pro vera Martis latitudine indaganda.*

CONSTRUXIMVS Generalem latitudinum tabulam omnibus Planetis satisfacientem, quam alia occasione publici iuris efficiemus vnà cum tabulis æquationum generalibus, nuper à nobis constructis, quæ mirè aptantur his hypothefibus nouis, ac ab altera generali æquationum orbis tabula differunt, quam in hoc volumine posuimus pro supputandis Planetis secundum Copernici hypothefes. Nunc autem trademus modum facilem ac expeditum ad eliciendas Planetarum latitudines, quem à doctissimo Keplero mutuauimus, licet aliquam exiguum differentiolam quandoque facere posset, duorum circiter minutorum, ob causam quam nunc inferemus. Fundatur enim hic calculus in hac Analogia, nempe vt est sinus anguli Anomalix commutationis ad sinum anguli ad terram, ita est sinus inclinationis loci orbitæ ad sinum quæsitæ latitudinis, quod intelligendum est propriè in plano ipsius orbitæ, vt patet capite 66. Kepleri, de motu ☿. Sed tamen si exerceatur in plano Eclipticæ, in quo calculum longitudinis ☿ facilitatis causa instituimus, exiguum aliquam differentiolam à vero adinueniemus, quæ tamen negligi poterit, cum rarò eueniat. Hic autem modus colligendi promptè latitudines, sic se habet.

Subtrahe verum locum Solis à vero Martis loco in Zodiaco, & procreabitur angulus ad terram iuxta Kepleri inuentiones ac hypothefes, qui si excefferit 90. gradus, debes accipere complementum ad semicirculum, & si superauerit semicirculum, debes accipere excessum supra semicirculum: ita tamen, vt non sit ipse excessus maior quadrante, quia tunc sumendum erit complementum ad integrum circulum; nam semper angulus ad terram debet esse quadrante minor, vt habeatur eius sinus, qui multiplicandus est in sinum anguli Inclinationis loci orbitæ, quam in superiore Canone cum distantia à nodo Boreo eliciuisti, & productum diuidendum est per sinum anguli Anomalix commutationis, seu ad Solem; nam in quotiente prodibit sinus latitudinis quæsitæ. Sed compendiosius absque diuisione ages, sumendo secantem secundum Anomalix commutationis, per quem multiplicabis priorem numerum ex multiplicatione dictorum sinuum ortum, sic enim prodibit idem sinus latitudinis quæsitæ. Hæc autem adinuenta latitudo Borealis erit ascendens, si distantia loci Eccentrici ☿ à nodo Boreo seu ☿ fuerit minor gradibus 90. & erit Borea descendens, dum fuerit vltra 90. gradus ante semicirculum. Sed ea ipsa excedente semicirculum, Austrina erit descendens vsque ad nouem signa, & Austrina ascendens à nouem signis, vsque ad finem circuli.

B 2 Exem-

et à dimidio

qua occurrat  
quando vice  
pateat Ano-  
gitur annus  
n. 24. in me-  
uo temporis  
ne gr. 4. 45.

lin. loci.

☿ 142590  
ib. 46

☿ 142544

☿ 101757

☿ 244301

☿ 40787

☿ 1558466

☿ 565152742

☿ 260192

☿ 8.58'.36".\*

☿ nem, quàm

☿ prodit in

CA-

*Exemplum primum.*

Videamus quomodo congruat calculus latitudinis ☿ cum obseruatione anni 1582. die 26. Decembr. hora 8. cum dimidia, quo momento elucimus in præcedente Canone locum eiusdem Martis verum in longitudine; ubi quidem tum distantia ☿ à nodo Boreo excerpimus Inclinationem loci orbitæ gr. 35'. 13". cuius sinus est 2770. subducendo autem verum Solis locum à vero Martis loco, relinquitur angulus ad terrā gr. 2. 37'. 44". abiecto scilicet semicirculo cuius sinū 4587 multiplico in priorem sinum & producit hic numerus 1270599, qui per sinum anguli Anomalix diuisus qui est 1807. (nam existente Anomalia commutationis sig. 5. gr. 28. 57'. 51"). accipio complementum eius ad semicirculum) producit sinum 7031. cuius arcus est gr. 4. 1'. 55". indicans veram ☿ latitudinem Borealem ascendentem. Tychonis autem obseruatio habet gr. 4. min. 7'. sed tamen puto aliquid erroris subesse, cum nunquam ex hoc calculo tantam inuenerim differentiam.

*Secundum Exemplum.*

Libet modo exquirere veram Martis latitudinem ad annum 1591. die 8. Iulij, anni correcti, hora 10. min. 24. quo momento dabatur latitudo Martis ex obseruatione Tychonica gr. 4. 45'. Australi. Supra in calculo longitudinis adinuenta fuit Inclination loci gr. 1. 26'. 52". cuius sinus 2527. Cumque ex subductione veri loci ☿ à vero loco ☿ resultat distantia arcualis ☿ à ☿ sig. 5. gr. 5. 18'. 20". accipio complementum eius ad semicirculum pro angulo ad terram gr. 24. 41'. 40". cuius sinum 41778 multiplico in priorem sinum Inclinationis, & prodit 105573006, quem numerum diuido per sinum complementi Anomalix ad semicirculum gr. 7. 20'. 33". qui est 12780, & emergit in quotiente sinus 8261. cuius arcus gr. 4. 44'. 20". debetur veræ Martis latitudini Australi, sicut indicat distantia ☿ à ☿, quæ excedit semicirculum.

## C A N O N XII.

*De calculo longitudinum trium superiorum Planetarum, secundum Copernici hypotheses ex nouis nostris equationum tabulis generalibus, supposita tamen Tychonica correctione in motu octauæ spheræ.*

**R**ADICES ac medios motus Planetarum, quæ in nostris Secundorum Mobilium tabulis habentur, accommodauimus, & deduximus ab Aequinoctio apparente Tychonico, vt correctior nonnihil ac compedi-



hior redderetur calculus. Qua de causa vocauimus ipsas tabulas mediorum motuum Tychoni-Copernicæas. In  $\sigma$  tamen prætermisimus hunc laborem, cum habeamus exactissimas ipsius Planetæ tabulas, à nobis nuper constructas: quæ sanè etsi in motu longitudinis ac Apogæo non admodum à Copernicæis differant, nihilominus maximam pariunt differentiã ob adedò discrepantes hypothesès, cum hæ verum  $\sigma$  motum respiciant, & Copernicææ medium, quo fit, vt etiam definitæ fuerint orbium  $\sigma$  commensurationes à Keplero apriusè obseruationibus Tychonicis instructo, valde diuersæ à commensurationibus Copernicanis.

Quare si locum Martis quærere voluerimus ex Copernicæo calculo, vtémur ipsdém mediorum motuum Tychonicis tabulis. Præterea nunc studiosis hac occasione communicamus Primam hanc nouam æquationũ orbis, seu Argumenti generalem tabulam, à nobis olim excogitatam & supputatam, quæ tùm compendio, tùm certitudine cæteris huiusmodi tabulis, quæ æquationes orbis exhibent excessũ & scrupulis proportionalibus alligatas, præstant. Neque enim ego solus multoties expertus fui fallacem & erroneam esse calculi formam in æquationibus orbis supputandis per scrupula proportionalia & excessum à prædecessoribus nostris traditam, sed & alij quoque. Nam scripsit ad me die vltima Ianuarij, anni 1606. Doctissimus Medicus, ac Mathematicus Londinensis, D. Richardus Forsterus, vt me hortaretur ad editionẽ harum mearum Aequationis Planetarum tabularũ, in hunc modum. *Examinavi Doctissimi Erasmi Reinoldi calculum in  $\sigma$  aberrare per 16'. 2'', à vero iuxta suam hypothesim per doctrinam triangulorum in Parallaxi orbis: hanc tribuo differentiam operationi per scrupula proportionalia, & excessum, quæ nunquam ferè exactè fit, &c.* Vt autem vti possimus & nostra generali tabula æquationum orbis, atque etiam Generali Positionum tabula, à nobis in directionum tabulis edita, ordinauimus pro vnoquoque Planeta particulares tabulas, in quibus ingrediendum est cum Anomalia Eccentrici, vt habeantur in primo ordine æquationes centri, quæ sunt eadẽ quæ & in tabulis Prutenicis & nostris continentur, ac eundem prorsus vsum habent. Deinde verò sequuntur duo alij numerorum ordines, nam in secunda columna reponuntur à nobis Aequationes orbis, seu Argumenti maximæ, quæ secundum datam orbium commensurationem contingunt ad illum situm Eccentrici. Quare data maxima orbis æquatione, congruente propositæ Eccentrici Anomaliæ, poterimus quancunque aliam orbis æquationem adminiculo nostræ Generalis Positionum tabulæ exquirere. In tertio ordine reposuimus numerum à nobis mysticum vocatum, qui ex iam dictis orbium commensurationibus ingeniosè colligitur pro dato situ Eccentrici, vt per illum similiter, neglecta maxima Argumenti æquatione, absoluerè possimus Planetarũ calculũ, & hoc sanè ope Primæ Generalis Tabulæ Aequationum Argumenti, quæ habetur in hoc volumine. In cuius quidem tabulæ fronte

re patet hic numerus mysticus ad integros gradus, & à lateribus continetur Anomalia orbis, seu Argumentum verum, & in area reponuntur singula æquationes absolutæ, & aded exactæ perinde ac si fuissent collectæ ex doctrina Triangulorum.

Duplicem autem nunc trademus in colligendis Planetarum locis formam, & primo quidem de tribus superioribus agemus.

## C A N O N X I I I.

*Verum locum cuiuslibet trium superiorum ex tabulis Tychoni-Copernicæis, & ex Generali Positionum tabula, secundum Copernici hypothesen supputare.*

**P**RIMO quidem ad propositum temporis momentum collige ex tabulis motuum Solis, æqualem eius motum, & melius quidē erit ex Tychonicis tabulis, cum Copernicæ aberrant in medio motu Solis ad decem circiter minuta.

Secundo, ex tabulis æqualium motuum ipsius Planetæ elicies more solito radicem anni completi, & mox eiusdem motum ad mēses completos, dies, horas, & minuta, coniungendo omnia in vnam summam, ut habeas tam Apogæi motum, quàm motū longitudinis Planetæ ab Aequinoctio.

Tertio, subtrahe locum Apogæi à longitudine Planetæ ab Aequinoctio, & relinquetur Anomalia Eccentrici, cum qua ex propria ipsius Planetæ tabula depromes centri æquationem, ac etiam æquationem Argumenti maximam adseruandā. Aequatio ipsa centri addatur in priore Anomaliæ Eccentrici semicirculo longitudini Planetæ ab Aequinoctio, & auferatur in posteriore, prout etiam tituli admonent, ut euadat longitudo ab Aequinoctio æquata; seu, ut alij dicunt, verus locus Planetæ Eccentricus, & in hypothesibus Ptolæmaicis dicitur verus centri Epicycli locus.

Quarto, hunc Planetæ locum Eccentrici verum subtrahe à medio motu Solis, & relinquetur Anomalia orbis æquata, quam dicimus Argumentum verum. Quod si non à medio Solis motu, sed à vero dictum locū Planetæ Eccentricum auferes, magis ad calculum Tychonicū accedes; quamuis commensurationes orbium ob hanc causam correctione indigeant. Nam alia Eccentricitas sequitur ex hypothesi, quæ medium Solis motū respicit, aliusque locus Apogæi: & alia ex hypothesi, quæ verum Solis locum obseruat, sicut & diuersus Apogæi locus.

Quinto perpende an Planeta sit in superiore vel inferiore Epicycli portione, quas dirimit vtrumque punctum contractus, ubi accidit maxima Argumenti æquatio; seu, ut cum Copernicanis loquar, an situs terræ sit in orbis annui portione ante punctum contractus, vel post. Id autem cognoscas facillimè ex ipsamet maxima Argumenti æquatione. Enimuerò hæc addita quadrant, constituit distantiam puncti contractus ab Apogæo, secundum



eundam signorum consequentiam in semicirculo priore, & secundū precedentiam in posteriore semicirculo; quæ distantia vocabitur à nobis Semiarcus directionis. Quare si Anomalia orbis fuit minor dicta maxima æquatione quadrante aucta, idest semiarcu directionis; vel in posteriore semicirculo, si complementum Anomalix ad integrum circulum fuerit minus, eademmet maxima æquatione quadrante aucta, seu semiarcu directionis: tūc quidem Planeta versatur in superiore portione orbis, & opus est adinvenire semiarcum ipsum directionis ad instar arcus semidiurni, à latere sinistro Generalis tabulæ Positionum, & in eius directo areatim quærere dictam orbis Anomaliā æquatam; vel eius complementum ad integrum circulum, perinde ac si esset distantia Planetæ à meridiano: cum sit distantia ab Apogæo orbis: nam correctis numeris per partem proportionalem, ut fieri consuevit pro adherentibus scrupulis, obtinebis quidem frontalem numerum, qui erit distantia Planetæ arcualis à Sole; in præcedentia quidem cum Anomalia æquata Planetæ sunt minor semiarcu directionis, idest, maxima orbis æquatione quadranti adiuncta, tūcque subtracta ipsa distantia à medio motu Solis, producit verum Planetæ locum in Zodiaco. Sed erit in consequentia, & medio motui Solis addenda, ut efficiatur verus locus Planetæ in vltima Epicycli portione, quando scilicet complementum Anomalix commutationis Planetæ ad integrum circulum fuerit minus dictamet maxima Argumenti æquatione quadrante aucta, seu dicto semiarcu directionis. Quod si Anomalia orbis fuerit in inferiore medietate ad Perigæum infra puncta contactus, hoc est, quando excesserit maximam æquationem quadrante adauctam, seu semiarcum directionis; vel quando excessus supra semicirculum ipsius Anomalix fuerit minor complemento maximæ æquationis ad quadrantem, quod quidē à nobis dicitur semiarcus retrogradationis: tunc quidem is semiarcus retrogradationis, (ceu arcus semidiurnus) accipiendus est similiter à latere sinistro ipsiusmet Generalis Positionum tabulæ, & in area, vel complementum Argumenti veri ad semicirculum, quod dicitur distantia à Perigæo in præcedentia, vel excessus supra semicirculum, quæ est distantia ab ipso Perigæo in consequentia; & hinc frontalis numerus correctus erit distantia à loco Solis opposito, hoc est in consequentia, & adiectiva ipsi loco opposito, ut prodeat verus Planetæ locus, si Anomalia fuerit in priore semicirculo, hoc est à puncto contactus vsque ad Perigæum, seu vsque ad sex completa signa. Sed erit in præcedentia & à dicto Solis opposito auferenda, ut emergat verus Planetæ locus, dum Anomalia orbis æquata fuerit à sex signis vsque ad alterū punctū contactus, quod determinatur coniungendo complémentū maximæ æquationis ad quadrantē eū semicirculo. Sed & alia ratione, & forsā faciliore, calculū expedire poteris post collectionem numeri frontalis correcti, conferendo ipsum cum numero areali, qui est distantia ab Apogæo, vel Perigæo in præcedentia, vel consequentia;



tia; nam vtriusque differentia erit equatio orbis, vel Argumenti. Quæ pro-  
fectò addenda erit in priore semicirculo Anomalix ipsi loco Planetæ Ec-  
centrico, seu vero motui centri Epicycli, & in posteriore ab eodem aufe-  
renda, ut consurgat verus Planetæ locus ab Aequinoctio apparente. Sed  
nunc dabimus quatuor exempla, quibus omnis varietas, quæ in calculo  
contingere solet, percipietur.

Proponatur adinueniendum esse verum locum ☿ in longitudine ad  
hos quatuor dies, nempe ad primū Ianuarij, & ad primū Nouembris, an-  
ni 1614. & ad primū Martij, ac ad primū Augusti in meridie anni 1615.

*Primum Exemplum ad inueniendum locum verum ☿ ad annum 1614.  
die 1. Ianuarij in meridie.*

| S | P   | i  | u  |  |
|---|-----|----|----|--|
| 8 | 29  | 45 | 33 | R. anni 1613. completi.  |
|   |     | 31 | 27 | Motus vnius diei.  |
| 9 | 0   | 17 | 0  | Longitudo media ☿ ab Aequinoctio.  |
| 4 | 29  | 15 | 3  | Apogæum subtrahendum.  |
| 4 | 1   | 1  | 87 | Anomalia Eccentrici.   |
|   | 9   | 58 | 53 | Aequatio centri correctæ sub.  |
|   | 42  | 56 |    | Aequatio Argumenti maxima.   |
| 8 | 20  | 18 | 7  | Locus verus ☿ Eccentricus, seu verus locus<br>centri Epicycli.   |
| 9 | 10  | 54 | 35 | Medius motus ☿ Tychonicus.   |
| 0 | 20  | 36 | 28 | Anomalia orbis, seu Argumentum verum.  |
|   | 132 | 56 |    | Semiarcus directionis querendus à latere Ta-<br>bulæ Positionū generalis, & in area argum-<br>ti.  |
|   | 20  | 8  | 24 | Numerus arcus sub arcu posit. gr. 12. corre-<br>ctus respectu semiarcus directionis.   |
|   |     | 28 | 4  | Differentia huius numeri ab Argumento vero.  |
|   | 1   | 40 |    | Differentia ad sequentē arcū positionis gr. 13.  |
|   |     | 17 |    | Pars propor. addenda priori arcui posit.   |
|   | 12  | 17 |    | Numerus frontalis correctus, idest, Distantia<br>☿ à ☉ in preced.  |
| 8 | 28  | 37 | 35 | Verus locus ☿ quæritus.  |
| 0 | 8   | 19 | 28 | <i>Vel absoluaturs calculus sic.</i><br>Differentia numeri frontalis ab Argumento ve-<br>ro, nempe æquatio orbis addenda loco ☿<br>Eccentrico. |
| 8 | 28  | 37 | 35 | Verus locus ☿, ut prius.   |

*Secun-*



# Ac Tab. Secundorum Mobilium.

25

Secundum Exemplum pro inuentione veri loci ☿, 1. Nouembris,  
anni 1614. in meridio.

| S | P  | I  | II |   |
|---|----|----|----|---|
| 8 | 29 | 45 | 33 | Et anni completi 1613.  |
| 5 | 9  | 50 | 29 | Motus ad diem primum Nouembr.   |
| 2 | 9  | 36 | 2  | Longitudo media ☿ ab Aequinoctio.   |
| 4 | 29 | 16 | 0  | Apogaeum ☿ subtr.   |
| 9 | 10 | 20 | 2  | Anomalia Eccentrici.  |
|   | 10 | 41 | 49 | Aequatio centri add.  |
|   | 39 | 26 |    | Aequatio Argumenti maxima.  |
| 2 | 20 | 17 | 51 | Verus locus ☿ Eccentricus.  |
| 7 | 10 | 32 | 48 | Medius motus ☿.   |
| 4 | 20 | 14 | 57 | Anomalia orbis.   |
|   | 39 | 45 | 3  | Compl. eius ad semicir. idest, distantia à Perigæo<br>in præcedentia sumenda arcaliter.               |
|   | 50 | 34 |    | Semicircus retrogradat. sumendus lateraliter.   |
|   | 39 | 35 | 18 | Numerus arcus sub arcu positionis gradus 78.<br>correctus respectu semicircus gr. 50. 34'.            |
|   |    | 9  | 45 | Differentia huius à complem. Anomaliae.   |
|   |    |    |    | Differentia ad sequentem arcum positionis gr. 79.   |
|   |    | 11 | 40 | Pars prop. addenda arcui posit. gr. 78.   |
| 2 | 18 | 11 | 40 | Numerus frontalis correctus, idest, distantia ☿<br>ab ☿ in consequentia, eidem addenda.               |
| 1 | 10 | 32 | 48 |   |
| 3 | 28 | 44 | 28 | Verus locus ☿.  |
|   |    |    |    | Vel absoluatursic calculus.   |
| 1 | 3  | 26 | 37 | Differentia numeri frontalis à complem. Ano-<br>maliae, & est æquatio addenda loco Eccen-<br>trico ☿. |
| 3 | 28 | 44 | 28 | Verus locus ☿, vt supra.  |

Ter-

*Tertium Exemplum ad colligendum locum Martis verum,  
die 1. Martij in meridie anni 1615.*

| S  | P  | i  | "  |  |
|----|----|----|----|--|
| 3  | 11 | 2  | 41 | Æ. anni completi 1614.   |
| 1  | 1  | 26 | 39 | Motus ad diem primum Martij.   |
| 4  | 12 | 29 | 20 | Longitudo media ☿ ab Aequinoctio.  |
| 4  | 29 | 16 | 20 | Apogæum sub.   |
| 11 | 13 | 13 | 0  | Anomalia Eccentrici.   |
|    | 2  | 57 | 30 | Aequatio centri add.   |
|    | 37 | 0  |    | Aequatio Argumenti maxima.   |
| 4  | 15 | 26 | 50 | Locus ☿ Eccentricus.   |
| 11 | 8  | 49 | 27 | Medius motus ☿.  |
| 6  | 23 | 22 | 37 | Anomalia orbis, seu Argumentum verum.  |
| 0  | 23 | 22 | 37 | Excessus supra semicirc. idest, distantia à Peri-<br>gæo in consequentia quærenda arcaliter.                       |
|    | 53 | 0  |    | Semicircus retrogradationis, quærendus latera-<br>liter.   |
|    | 23 | 7  |    | Num. arcalis competens sub arcu posit. gr. 51.   |
|    |    | 15 | 37 | Differentia huius distantie à Perigæo.   |
|    |    | 27 | 34 | Pars prop. addenda arcui gr. 51.   |
| 1  | 21 | 27 | 34 | Numerus frontalis correctus, idest, distantia<br>Martis à Solis oppositione in præcedentia<br>☿ ☿.                 |
| 5  | 8  | 49 | 27 |  |
| 3  | 17 | 21 | 53 | Verus locus ☿.   |
|    |    |    |    | <i>Vel expediatur calculus sic.</i>  |
| 0  | 28 | 4  | 57 | Differentia inter numerum frontalem, & distan-<br>tiam à Perigæo, idest, æquatio subtrahenda à<br>loco Eccentrico. |
| 3  | 17 | 21 | 53 | Verus locus ☿ sicut prius.   |

*Quar-*



Quartum Exemplum pro indagando vero loco Martis,  
die 1. Augusti 1615. in merid. e.

| S | P   | i  | II |   |
|---|-----|----|----|---|
| 3 | 11  | 2  | 41 | B. anni completi 1614.  |
| 3 | 21  | 37 | 37 | Motus ad primum Augusti.  |
| 7 | 2   | 40 | 18 | Longitudo media ☿ ab Aequin.  |
| 4 | 29  | 16 | 48 | Apogæum ☿ sub.  |
| 2 | 3   | 23 | 30 | Anomalia Eccentrici.  |
|   | 9   | 30 | 22 | Aequatio centri sub.  |
|   | 38  | 28 |    | Aequatio Argumenti maxima.  |
| 6 | 23  | 9  | 56 | Locus ☿ Eccentricus.  |
| 4 | 9   | 37 | 41 | Locus medius ☿.   |
| 9 | 16  | 27 | 45 | Anomalia orbis, vel Argumentum verum.   |
| 2 | 13  | 32 | 15 | Complementum eius ad integrum circulum,<br>idest, distantia ab Apogæo in præcedentia.           |
|   | 128 | 28 |    | Semiarcus directionis.  |
|   | 72  | 34 | 44 | Num. arcus sub arcu posit. gr. 46. correctus<br>respectu gr. 128. 28'. semiarcus dir.           |
|   |     | 57 | 31 | Differentia à distantia ab Apogæo.  |
|   | 1   | 29 |    | Differentia ad sequentem arcum posit. gr. 47.   |
|   |     | 38 | 20 | Pars propor. addenda arcui posit. gr. 46.   |
| 1 | 16  | 38 | 20 | Num. frontalis correctus, idest, distantia ☿ à<br>☿ in consequentia, & est addenda.             |
| 5 | 26  | 16 | 1  | Verus locus ☿.  |
|   |     |    |    | <i>Vel expediatur calculus sic.</i>   |
| 0 | 26  | 53 | 55 | Differentia num. frontalis, & distàtia ab Apo-<br>gæo, idest, æquatio subtr. à loco Eccentrico. |
| 5 | 26  | 16 | 1  | Verus locus ☿, vt supra.  |

rum,

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n verum.  
stantia à Peri-  
arcaliter.  
rendus latera-

posit. gr. 51.  
gæo.

est, distantia  
præcedentia

c.

lem, & distà-  
subtrahenda à

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CA-

## CANON XIV.

*Verum trium superiorum Planetarum motum aliter exquirere per primam  
Generalem Aequationum orbis tabulam.*

**I**N hac forma supputandi tres superiores Planetas per Generalem primam Aequationum orbis tabulam, conuenit habere eosdem æquales motus, nimirū Solis, atque ipsius Planetæ. Deinde opus est colligere Aequationem centri cum Anomalia Eccentri, vt efficiatur locus Planetæ Eccentricus, qui eodem modo quo supra subducendus est à medio Solis motu, vt resultet Anomalia orbis Aequata, seu Argumentum verum, & hucusque conuenit hæc forma cum illa præcedentis Canonis. Sed tamen prætermissa æquatione maxima, colligendus erit cum Anomalia Eccentrici numerus mysticus in propria Planetæ tabula. Cum quo numero mystico confugiendum erit ad Tabulam Aequationum orbis Generalem, sumendo cum in fronte, & à latere sinistro, vel dextro Anomaliam orbis æquatam, seu Argumentum verum, & in area obtinebis Aequationem orbis omnibus numeris absolutam, quæ congruet pro dato positi Epicycli, & Eccentrici. Hæc autem Aequatio addenda est loco Planetæ Eccentrici in priore semicirculo Argumenti veri, & auferenda in posteriore, prout tituli ipsi indicant supernè, vel infernè appositi, atque sic resultabit verus Planetæ locus, secundum Zodiaci longitudinem, vt ex his repetitis exemplis patet.

*Primum Exemplum pro loco ♀ ad annum 1614.  
1. Ianuarij in meridie.*

| S | P  | I  | II |   |
|---|----|----|----|---|
| 9 | 0  | 17 | 0  | Longitudo media ♀ ab Aequinoctio.             |
| 4 | 29 | 15 | 3  | Apogæum sub.                                  |
| 4 | 1  | 1  | 57 | Anomalia Eccentrici.                          |
|   | 9  | 58 | 53 | Aequatio centri correctæ sub.                 |
|   | 10 | 56 |    | Numerus mysticus.                             |
| 8 | 20 | 18 | 7  | Verus locus ♀ Eccentricus.                    |
| 9 | 10 | 54 | 35 | Medius motus ☿.                               |
| 0 | 20 | 36 | 28 | Anomalia orbis, seu Argum. verum.             |
|   | 8  | 19 | 56 | Aequatio orbis add. correctæ per partem prop. |
| 8 | 28 | 38 | 3  | Verus locus ♀.                                |

*Secun-*



# Ac Tab. Secundorum Mobilium.

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Secundum Exemplum repetitum pro inueniendo loco ☿ ad  
diem 1. Nouembris 1614.

| S | P  | I  | II |                                       |
|---|----|----|----|---------------------------------------|
| 2 | 9  | 36 | 2  | Longitudo media ☿ ab Aequinoctio.     |
| 4 | 29 | 16 | 0  | Apogæum ☿ sub.                        |
| 9 | 10 | 20 | 2  | Anomalia Eccentrici.                  |
|   | 10 | 41 | 49 | Aequatio centri add.                  |
|   | 12 | 54 |    | Numerus mysticus.                     |
| 2 | 20 | 17 | 51 | Verus locus ☿ Eccentricus.            |
| 7 | 10 | 32 | 48 | Medius motus Solis.                   |
| 4 | 20 | 14 | 57 | Anomalia orbis, seu Argumentum verum. |
| 1 | 8  | 26 |    | Aequatio orbis correctâ add.          |
| 3 | 28 | 43 | 51 | Verus locus ☿.                        |

Tertium Exemplum ad 1. Martij 1615.  
repetitum.

| S  | P  | I  | II |                                       |
|----|----|----|----|---------------------------------------|
| 4  | 12 | 29 | 20 | Longitudo media ☿ ab Aequinoctio.     |
| 4  | 29 | 16 | 20 | Apogæum subtr.                        |
| 11 | 13 | 13 | 0  | Anomalia Eccentrici.                  |
|    | 2  | 57 | 30 | Aequatio centri add.                  |
|    | 14 | 23 |    | Numerus mysticus.                     |
| 4  | 15 | 26 | 50 | Verus locus ☿ Eccentricus.            |
| 11 | 8  | 49 | 27 | Medius motus ☿.                       |
| 6  | 23 | 22 | 37 | Anom. orbis æquata, vel Argum. verum. |
|    | 28 | 6  | 39 | Aequatio orbis subtr.                 |
| 3  | 17 | 20 | 11 | Verus locus ☿.                        |

Quar-

*Quartum Exemplum repetitum pro inueniendo loco Martis  
ad 1. Augusti 1615. in meridie.*

| S | P  | I  | II |                                   |
|---|----|----|----|-----------------------------------|
| 7 | 2  | 40 | 18 | Longitudo media ☿ ab Aequin.      |
| 4 | 29 | 16 | 48 | Apogæum ☿ sub.                    |
| 2 | 3  | 23 | 30 | Anomalia Eccentrici.              |
|   | 9  | 30 | 22 | Aequatio centri sub.              |
|   | 13 | 28 |    | Numerus mysticus.                 |
| 6 | 23 | 9  | 56 | Locus ☿ Eccentricus.              |
| 4 | 9  | 37 | 41 | Locus ☿ medius.                   |
| 9 | 16 | 27 | 45 | Anomalia orbis, vel Argum. verum. |
|   | 26 | 54 | 4  | Aequatio orbis, vel Argum. sub.   |
| 5 | 26 | 15 | 52 | Verus locus ☿.                    |

Pro latitudine trium superiorum ex Prutenico calculo venanda, recurre ad Canonem 50. nostrarum tabularum Secundorum Mobilium, & pro duobus inferioribus Planetis consule Canonem 51.

#### CANON XV.

*De calculo duorum inferiorum Planetarum Veneris, & Mercurij Copernicæ,  
per proprias eorum tabulas, ac per Generales Positionum, &  
æquationum orbis tabulas.*

**D**uo inferiores Planetæ Venus, & Mercurius paulò diuersè à tribus superioribus supputantur. Nam primo quidem colligendus est medius Solis motus, qui communis est his duobus Planetis. Deinde secundo ex tabulis proprijs eliciendus est motus Apogæi ipsius Planetæ, ac Anomalia orbis, seu Argumentum medium. Tertio aufer motum Apogæi à motu longitudinis, vt relinquatur Anomalia Eccentrici, cum qua sicut in tribus superioribus capienda est centri æquatio, atque etiam, vel æquatio Argumenti maxima, vel numerus mysticus. Cum hac centri æquatione corrigenda erit tum longitudo Planetæ, vt fiat locus Planetæ Eccentricus, seu longitudo æquata, obseruando scilicet affectionem ipsius æquationis in tabula expressam: tum etiam Anomalia, seu Argumentum, obseruando contrariam tituli affectionem, hoc est quando addenda est longitudini mediæ, è contra auferatur ab Anomalia orbis, & quando illic auferenda est, hic addatur, vt euadat Anomalia æquata, seu Argumentum verum.



# Ac Tab. Secundorum Mobilium.

31

verum. Quarto, si per tabulam Positionum generalem ope æquationis maximæ calculum absolue volueris, animaduerte, an Planeta sit in superiore orbis portione ad Apogæum, an in inferiore ad Perigæum; & hoc mediante ipsa maxima æquatione, cum qua sit semiarculus directionis, dū quadranti adiungitur; vel semiarculus retrocessus, cum de quadrante tollitur. Itaque si Anomalia orbis æquata, vel Argumentum verum fuerit minus semiarculo directionis: vel in posteriore semicirculo si distantia Planetæ ab Apogæo in præcedentia, quæ habetur subducendo Argumentum verum ab integro circulo, fuerit quoque eodem semiarculo directionis minor; tunc adinuenito semiarculo directionis lateraliter, & areatim dicta distantia Planetæ ab Apogæo, dabitur in fronte numerus, conferendus cum dictomet areali numero, vt per subtractionem minoris de maiore innotescat æquatio orbis. Existente verò Planeta in inferiore Epicycli portione ad Perigæum, quæratur semiarculus retrocessus à latere Generalis tabulæ Positionum, & in area distantia Planetæ à Perigæo citra, vel ultra, & in fronte dabitur numerus, cuius differentia ab areali erit itidem quæsita orbis æquatio. Et hæc sanè addenda est ad eundem modum, quo in tribus superioribus, loco vero Planetæ Eccentrico, dum Argumentum verum fuit in priore semicirculo, & auferenda in posteriore ab eodem, atque sic prodibit verus Planetæ locus in Zodiaco.

Quod si per tabulam Aequationum orbis Generalem ad finem calculi peruenire libuerit, relicta maxima orbis æquatione, habeas numerum mysticum, quem comperies in fronte dictæ tabulæ, & lateraliter Argumentum verum, & in angulo communi excipies æquationem orbis addendam, vel auferendam à loco Planetæ Eccentrico, sicut & in tribus superioribus diximus, vt prodeat verus ipsius Planetæ locus in Zodiaco, vt ex his exemplis percipies.

Sit explorandus locus Veneris, & Mercurij ad annum Domini 1555. die 14. Iunij, hor. 6. min. 57'. quo temporis momento dabatur ex Canone 3. longitudo media Solis sig. 3. gr. 1. 59'. 49". quæ competit etiam his duobus Planetis.

Pro

Martis

um.

venanda, re-  
um Mobilium,

riij Copernicæ,  
um, &

liuersè à tribus  
gendus est me-  
Deinde secun-  
us Planetæ, ac  
r motum Apo-  
trici, cum qua  
que etiam, vel  
um hac centri  
locus Planetæ  
ctionem ipsius  
Argumentum,  
do addenda est  
& quando illic  
Argumentum  
verum.

*Pro vero loco Veneris.*

| S                                   | P   | I  | "  |  |
|-------------------------------------|-----|----|----|--|
| 3                                   | 1   | 59 | 49 | Longitudo media ♀, & ☿ ab Aequinoctio.             |
| 2                                   | 15  | 57 | 50 | R. anni 1554. completi.                            |
|                                     |     |    | 21 | Mensis Maius completus.                            |
|                                     |     |    | 2  | Dies 14.   |
| 2                                   | 15  | 58 | 13 | Apogaeum ♀.  |
| 4                                   | 21  | 10 | 19 | R. anni 1554.                                      |
| 3                                   | 3   | 5  | 39 | Mensis Maius completus.                            |
|                                     | 8   | 37 | 53 | Dies 14.   |
|                                     |     | 9  | 15 | hor. 6.  |
|                                     |     | 1  | 28 | min. 57.   |
| 8                                   | 3   | 4  | 34 | Anom. commutationis, seu Argum. medium.            |
| 0                                   | 16  | 1  | 36 | Anomalia Eccentrici.                               |
|                                     | 0   | 32 | 47 | Aequat. centri sub. à long. & add. Anom. com.      |
|                                     | 45  | 12 |    | Aequatio maxima.                                   |
| 3                                   | 1   | 27 | 2  | Locus ♀ Eccentricus.                               |
| 8                                   | 3   | 37 | 21 | Anom. æquata, seu Argumentum verum.                |
| 3                                   | 26  | 22 | 39 | Compl. ad integrum cir. idest, distantia ab Apo-   |
|                                     | 116 | 22 | 39 | geo in præc.                                       |
|                                     | 135 | 12 |    | Semiarculus directionis.                           |
|                                     | 115 | 44 |    | Numer. arealis correctus respectu gr. 135. 12.     |
|                                     |     | 38 | 39 | sub arcu posit. gr. 73.                            |
|                                     | 1   | 16 |    | Differentia huius à distantia ab Apogeo.           |
|                                     |     | 30 | 32 | Differentia ad sequentē gradū arcus posit. gr. 74. |
|                                     |     | 30 | 32 | Pars prop. addenda arcui gr. 73.                   |
| 2                                   | 13  | 30 | 32 | Num. frontalis correctus sub. à dist. ab Apogeo.   |
| 1                                   | 12  | 52 | 7  | Relictum, idest, æquatio orbis sub. à loco ♀ Ec-   |
|                                     |     |    |    | centrico.  |
| 1                                   | 18  | 34 | 55 | Verus locus ♀ in Zodiaco.                          |
| <i>Vel expediatur calculus sic.</i> |     |    |    |  |
| 3                                   | 1   | 27 | 2  | Locus ♀ Eccentricus.                               |
|                                     | 9   | 47 |    | Numerus mysticus.                                  |
| 8                                   | 3   | 37 | 21 | Anom. orbis, seu Argumentum verum.                 |
| 1                                   | 12  | 52 | 30 | Aequatio orbis subtr. ex generali tabula.          |
| 1                                   | 18  | 34 | 42 | Verus locus ♀ in Zodiaco.                          |

*Pro*



*Pro loco Mercurij inquirendo .*

| S | P   | I  | "  |   |
|---|-----|----|----|---|
| 3 | 1   | 59 | 49 | Longitudo media ☿ & ☿ ab Aequinoctio.           |
| 7 | 29  | 10 | 49 | R. anni 1554. completi.                         |
|   |     |    | 45 | Mensis Maius completus.                         |
|   |     |    | 4  | Dies 14.  |
| 7 | 29  | 11 | 38 | Apogæum ☿.                                      |
| 4 | 20  | 15 | 32 | R. anni 1554.                                   |
| 3 | 19  | 6  | 59 | Mensis Maius completus.                         |
| 1 | 13  | 29 | 39 | Dies 14.  |
|   |     | 46 | 36 | horæ 6.   |
|   |     | 7  | 22 | min. 57.  |
| 9 | 23  | 46 | 8  | Anomalia commut. seu Argum. medium ☿.           |
| 7 | 2   | 48 | 11 | Anomalia Eccentrici.                            |
|   | 1   | 45 | 48 | Aequatio centri add. longit. & sub. ab Argum.   |
|   | 23  | 36 |    | Aequatio maxima Argumenti.                      |
| 3 | 3   | 45 | 37 | Locus ☿ Eccentricus.                            |
| 9 | 22  | 0  | 20 | Anom. orbis æquata, seu Argum. verum.           |
| 2 | 7   | 59 | 40 | Compl. ad circulum, idest, distant. ab Apogæo.  |
|   | 67  | 59 | 47 |   |
|   | 113 | 36 |    | Semiarculus directionis.                        |
|   | 67  | 51 | 24 | Num. arcus correctus secundum dictum semi-      |
|   |     | 8  | 16 | circ. dir. sub arcu posit. gr. 50.              |
|   | 1   | 17 |    | Differentia eius à dist. ab Apogæo.             |
|   |     | 6  | 27 | Differentia ad sequentem arcum posit. gr. 51.   |
| 1 | 20  | 6  | 27 | Pars prop. addenda arcui gr. 50.                |
|   |     |    | 27 | Numerus frontalis correctus sub. à distantia ab |
|   |     |    |    | Apogæo.   |
| 0 | 17  | 53 | 13 | Aequatio orbis sub. à loco ☿ Eccentrico.        |
| 2 | 15  | 52 | 24 | Verus locus ☿.                                  |
|   |     |    |    | <i>Vel absolnatur calculus sic.</i>             |
|   | 25  | 21 |    | Numerus mysticus.                               |
| 9 | 22  | 0  | 20 | Anom. orbis coræquata, vel Argumentū verum.     |
|   | 17  | 53 | 6  | Aequatio orbis sub. accepta ex generali tabula. |
| 2 | 15  | 52 | 31 | Verus locus ☿, vt prius.                        |





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# APPENDIX TABULARVM

Secundorum Mobilium,

*In qua habentur*

Tabulæ Luminarium Tychonicæ, noua, ac compendiosa forma extructæ.

Tabulæ ex restitutione motus Martis Tychonica recens collectæ, & elaboratæ.

Tabula Generalis Prima Aequationum orbis, vel Argumenti omnibus Planetis, & hypothesis accommodata.

*Opera, & labore*

IOAN. ANTONII MAGINI PATAVINI,  
MATHEMATICARVM IN ALMO  
Bononiensi Gymnasio Professoris.

Supplementum Ephemeridum,  
*Tabula Præcessionis Aequinoctiorum Tychonica.*

| Præcessio<br>Aequinoct. |   |    |    |    | Præcessio<br>Aequinoct. |   |    |    |    | Præcessio<br>Aequinoct. |   |    |    |    |
|-------------------------|---|----|----|----|-------------------------|---|----|----|----|-------------------------|---|----|----|----|
| Anni                    | S | P  | I  | "  | Anni                    | S | P  | I  | "  | Anni                    | S | P  | I  | "  |
| 1500                    | 0 | 26 | 50 | 56 | 1534                    | 0 | 27 | 19 | 50 | 1568                    | 0 | 27 | 48 | 44 |
| 1501                    | 0 | 26 | 51 | 47 | 1535                    | 0 | 27 | 20 | 41 | 1569                    | 0 | 27 | 49 | 35 |
| 1502                    | 0 | 26 | 52 | 38 | 1536                    | 0 | 27 | 21 | 32 | 1570                    | 0 | 27 | 50 | 26 |
| 1503                    | 0 | 26 | 53 | 29 | 1537                    | 0 | 27 | 22 | 23 | 1571                    | 0 | 27 | 51 | 17 |
| 1504                    | 0 | 26 | 54 | 20 | 1538                    | 0 | 27 | 23 | 14 | 1572                    | 0 | 27 | 52 | 8  |
| 1505                    | 0 | 26 | 55 | 11 | 1539                    | 0 | 27 | 24 | 5  | 1573                    | 0 | 27 | 52 | 59 |
| 1506                    | 0 | 26 | 56 | 2  | 1540                    | 0 | 27 | 24 | 56 | 1574                    | 0 | 27 | 53 | 50 |
| 1507                    | 0 | 26 | 56 | 53 | 1541                    | 0 | 27 | 25 | 47 | 1575                    | 0 | 27 | 54 | 41 |
| 1508                    | 0 | 26 | 57 | 44 | 1542                    | 0 | 27 | 26 | 38 | 1576                    | 0 | 27 | 55 | 32 |
| 1509                    | 0 | 26 | 58 | 35 | 1543                    | 0 | 27 | 27 | 29 | 1577                    | 0 | 27 | 56 | 23 |
| 1510                    | 0 | 26 | 59 | 26 | 1544                    | 0 | 27 | 28 | 20 | 1578                    | 0 | 27 | 57 | 14 |
| 1511                    | 0 | 27 | 0  | 17 | 1545                    | 0 | 27 | 29 | 11 | 1579                    | 0 | 27 | 58 | 5  |
| 1512                    | 0 | 27 | 1  | 8  | 1546                    | 0 | 27 | 30 | 2  | 1580                    | 0 | 27 | 58 | 56 |
| 1513                    | 0 | 27 | 1  | 59 | 1547                    | 0 | 27 | 30 | 53 | 1581                    | 0 | 27 | 59 | 47 |
| 1514                    | 0 | 27 | 2  | 50 | 1548                    | 0 | 27 | 31 | 44 | 1582                    | 0 | 28 | 0  | 38 |
| 1515                    | 0 | 27 | 3  | 41 | 1549                    | 0 | 27 | 32 | 35 | 1583                    | 0 | 28 | 1  | 29 |
| 1516                    | 0 | 27 | 4  | 32 | 1550                    | 0 | 27 | 33 | 26 | 1584                    | 0 | 28 | 2  | 20 |
| 1517                    | 0 | 27 | 5  | 23 | 1551                    | 0 | 27 | 34 | 17 | 1585                    | 0 | 28 | 3  | 11 |
| 1518                    | 0 | 27 | 6  | 14 | 1552                    | 0 | 27 | 35 | 8  | 1586                    | 0 | 28 | 4  | 2  |
| 1519                    | 0 | 27 | 7  | 5  | 1553                    | 0 | 27 | 35 | 59 | 1587                    | 0 | 28 | 4  | 53 |
| 1520                    | 0 | 27 | 7  | 56 | 1554                    | 0 | 27 | 36 | 50 | 1588                    | 0 | 28 | 5  | 44 |
| 1521                    | 0 | 27 | 8  | 47 | 1555                    | 0 | 27 | 37 | 41 | 1589                    | 0 | 28 | 6  | 35 |
| 1522                    | 0 | 27 | 9  | 38 | 1556                    | 0 | 27 | 38 | 32 | 1590                    | 0 | 28 | 7  | 26 |
| 1523                    | 0 | 27 | 10 | 29 | 1557                    | 0 | 27 | 39 | 23 | 1591                    | 0 | 28 | 8  | 17 |
| 1524                    | 0 | 27 | 11 | 20 | 1558                    | 0 | 27 | 40 | 14 | 1592                    | 0 | 28 | 9  | 8  |
| 1525                    | 0 | 27 | 12 | 11 | 1559                    | 0 | 27 | 41 | 5  | 1593                    | 0 | 28 | 9  | 59 |
| 1526                    | 0 | 27 | 13 | 2  | 1560                    | 0 | 27 | 41 | 56 | 1594                    | 0 | 28 | 10 | 50 |
| 1527                    | 0 | 27 | 13 | 53 | 1561                    | 0 | 27 | 42 | 47 | 1595                    | 0 | 28 | 11 | 41 |
| 1528                    | 0 | 27 | 14 | 44 | 1562                    | 0 | 27 | 43 | 38 | 1596                    | 0 | 28 | 12 | 32 |
| 1529                    | 0 | 27 | 15 | 35 | 1563                    | 0 | 27 | 44 | 29 | 1597                    | 0 | 28 | 13 | 23 |
| 1530                    | 0 | 27 | 16 | 26 | 1564                    | 0 | 27 | 45 | 20 | 1598                    | 0 | 28 | 14 | 14 |
| 1531                    | 0 | 27 | 17 | 17 | 1565                    | 0 | 27 | 46 | 11 | 1599                    | 0 | 28 | 15 | 5  |
| 1532                    | 0 | 27 | 18 | 8  | 1566                    | 0 | 27 | 47 | 2  | 1600                    | 0 | 28 | 15 | 56 |
| 1533                    | 0 | 27 | 18 | 59 | 1567                    | 0 | 27 | 47 | 53 | 1601                    | 0 | 28 | 16 | 47 |



| Præcessio Aequinoct. |    |    |    |
|----------------------|----|----|----|
| S                    | P  | i  | u  |
| 0                    | 27 | 48 | 44 |
| 0                    | 27 | 49 | 35 |
| 0                    | 27 | 50 | 26 |
| 0                    | 27 | 51 | 17 |
| 0                    | 27 | 52 | 8  |
| 0                    | 27 | 52 | 59 |
| 0                    | 27 | 53 | 50 |
| 0                    | 27 | 54 | 41 |
| 0                    | 27 | 55 | 32 |
| 0                    | 27 | 56 | 23 |
| 0                    | 27 | 57 | 14 |
| 0                    | 27 | 58 | 5  |
| 0                    | 27 | 58 | 56 |
| 0                    | 27 | 59 | 47 |
| 0                    | 28 | 0  | 38 |
| 0                    | 28 | 1  | 29 |
| 0                    | 28 | 2  | 20 |
| 0                    | 28 | 3  | 11 |
| 0                    | 28 | 4  | 2  |
| 0                    | 28 | 4  | 53 |
| 0                    | 28 | 5  | 44 |
| 0                    | 28 | 6  | 35 |
| 0                    | 28 | 7  | 26 |
| 0                    | 28 | 8  | 17 |
| 0                    | 28 | 9  | 8  |
| 0                    | 28 | 9  | 59 |
| 0                    | 28 | 10 | 50 |
| 0                    | 28 | 11 | 41 |
| 0                    | 28 | 12 | 32 |
| 0                    | 28 | 13 | 23 |
| 0                    | 28 | 14 | 14 |
| 0                    | 28 | 15 | 5  |
| 0                    | 28 | 15 | 56 |
| 0                    | 28 | 16 | 47 |

| Præcessio Aequinoct. |   |    |       |
|----------------------|---|----|-------|
| Anni                 | S | P  | i u   |
| 1601                 | 0 | 28 | 16 47 |
| 1602                 | 0 | 28 | 17 38 |
| 1603                 | 0 | 28 | 18 29 |
| 1604                 | 0 | 28 | 19 20 |
| 1605                 | 0 | 28 | 20 11 |
| 1606                 | 0 | 28 | 21 2  |
| 1607                 | 0 | 28 | 21 53 |
| 1608                 | 0 | 28 | 22 44 |
| 1609                 | 0 | 28 | 23 35 |
| 1610                 | 0 | 28 | 24 26 |
| 1611                 | 0 | 28 | 25 17 |
| 1612                 | 0 | 28 | 26 8  |
| 1613                 | 0 | 28 | 26 59 |
| 1614                 | 0 | 28 | 27 50 |
| 1615                 | 0 | 28 | 28 41 |
| 1616                 | 0 | 28 | 29 32 |
| 1617                 | 0 | 28 | 30 23 |
| 1618                 | 0 | 28 | 31 14 |
| 1619                 | 0 | 28 | 32 5  |
| 1620                 | 0 | 28 | 32 56 |
| 1621                 | 0 | 28 | 33 47 |
| 1622                 | 0 | 28 | 34 38 |
| 1623                 | 0 | 28 | 35 29 |
| 1624                 | 0 | 28 | 36 20 |
| 1625                 | 0 | 28 | 37 11 |
| 1626                 | 0 | 28 | 38 2  |
| 1627                 | 0 | 28 | 38 53 |
| 1628                 | 0 | 28 | 39 44 |
| 1629                 | 0 | 28 | 40 35 |
| 1630                 | 0 | 28 | 41 26 |
| 1631                 | 0 | 28 | 42 17 |
| 1632                 | 0 | 28 | 43 8  |
| 1633                 | 0 | 28 | 43 59 |
| 1634                 | 0 | 28 | 44 50 |

| Præcessio Aequinoct. |   |    |       |
|----------------------|---|----|-------|
| Anni                 | S | P  | i u   |
| 1634                 | 0 | 28 | 44 50 |
| 1635                 | 0 | 28 | 45 41 |
| 1636                 | 0 | 28 | 46 32 |
| 1637                 | 0 | 28 | 47 23 |
| 1638                 | 0 | 28 | 48 14 |
| 1639                 | 0 | 28 | 49 5  |
| 1640                 | 0 | 28 | 49 56 |
| 1641                 | 0 | 28 | 50 47 |
| 1642                 | 0 | 28 | 51 38 |
| 1643                 | 0 | 28 | 52 29 |
| 1644                 | 0 | 28 | 53 20 |
| 1645                 | 0 | 28 | 54 11 |
| 1646                 | 0 | 28 | 55 2  |
| 1647                 | 0 | 28 | 55 53 |
| 1648                 | 0 | 28 | 56 44 |
| 1649                 | 0 | 28 | 57 35 |
| 1650                 | 0 | 28 | 58 26 |
| 1651                 | 0 | 28 | 59 17 |
| 1652                 | 0 | 29 | 0 8   |
| 1653                 | 0 | 29 | 0 59  |
| 1654                 | 0 | 29 | 1 50  |
| 1655                 | 0 | 29 | 2 41  |
| 1656                 | 0 | 29 | 3 32  |
| 1657                 | 0 | 29 | 4 23  |
| 1658                 | 0 | 29 | 5 14  |
| 1659                 | 0 | 29 | 6 5   |
| 1660                 | 0 | 29 | 6 56  |
| 1661                 | 0 | 29 | 7 47  |
| 1662                 | 0 | 29 | 8 38  |
| 1663                 | 0 | 29 | 9 29  |
| 1664                 | 0 | 29 | 10 20 |
| 1665                 | 0 | 29 | 11 11 |
| 1666                 | 0 | 29 | 12 2  |
| 1667                 | 0 | 29 | 12 53 |

| Præcessio Aequinoct. |   |    |       |
|----------------------|---|----|-------|
| Anni                 | S | P  | i u   |
| 1667                 | 0 | 29 | 12 53 |
| 1668                 | 0 | 29 | 13 44 |
| 1669                 | 0 | 29 | 14 35 |
| 1670                 | 0 | 29 | 15 26 |
| 1671                 | 0 | 29 | 16 17 |
| 1672                 | 0 | 29 | 17 8  |
| 1673                 | 0 | 29 | 17 59 |
| 1674                 | 0 | 29 | 18 50 |
| 1675                 | 0 | 29 | 19 41 |
| 1676                 | 0 | 29 | 20 32 |
| 1677                 | 0 | 29 | 21 23 |
| 1678                 | 0 | 29 | 22 14 |
| 1679                 | 0 | 29 | 23 5  |
| 1680                 | 0 | 29 | 23 56 |
| 1681                 | 0 | 29 | 24 47 |
| 1682                 | 0 | 29 | 25 38 |
| 1683                 | 0 | 29 | 26 29 |
| 1684                 | 0 | 29 | 27 20 |
| 1685                 | 0 | 29 | 28 11 |
| 1686                 | 0 | 29 | 29 2  |
| 1687                 | 0 | 29 | 29 53 |
| 1688                 | 0 | 29 | 30 44 |
| 1689                 | 0 | 29 | 31 35 |
| 1690                 | 0 | 29 | 32 26 |
| 1691                 | 0 | 29 | 33 17 |
| 1692                 | 0 | 29 | 34 8  |
| 1693                 | 0 | 29 | 34 59 |
| 1694                 | 0 | 29 | 35 50 |
| 1695                 | 0 | 29 | 36 41 |
| 1696                 | 0 | 29 | 37 32 |
| 1697                 | 0 | 29 | 38 23 |
| 1698                 | 0 | 29 | 39 14 |
| 1699                 | 0 | 29 | 40 5  |
| 1700                 | 0 | 29 | 40 56 |

*Tabella differentie precessionis Aequin. Tychonica à Copernica.*

| Anni | I | II | Anni | I  | II | Anni | I  | II | Anni | I  | II |
|------|---|----|------|----|----|------|----|----|------|----|----|
| 1561 | 0 | 0  | 1596 | 9  | 16 | 1631 | 18 | 47 | 1666 | 28 | 22 |
| 1562 | 0 | 16 | 1597 | 9  | 32 | 1632 | 19 | 4  | 1667 | 28 | 39 |
| 1563 | 0 | 31 | 1598 | 9  | 49 | 1633 | 19 | 20 | 1668 | 28 | 55 |
| 1564 | 0 | 47 | 1599 | 10 | 5  | 1634 | 19 | 36 | 1669 | 29 | 11 |
| 1565 | 1 | 2  | 1600 | 10 | 21 | 1635 | 19 | 53 | 1670 | 29 | 28 |
| 1566 | 1 | 18 | 1601 | 10 | 37 | 1636 | 20 | 9  | 1671 | 29 | 44 |
| 1567 | 1 | 33 | 1602 | 10 | 83 | 1637 | 20 | 25 | 1672 | 30 | 1  |
| 1568 | 1 | 49 | 1603 | 11 | 9  | 1638 | 20 | 42 | 1673 | 30 | 17 |
| 1569 | 2 | 5  | 1604 | 11 | 25 | 1639 | 20 | 58 | 1674 | 30 | 33 |
| 1570 | 2 | 20 | 1605 | 11 | 42 | 1640 | 21 | 15 | 1675 | 30 | 50 |
| 1571 | 2 | 36 | 1606 | 11 | 58 | 1641 | 21 | 31 | 1676 | 31 | 6  |
| 1572 | 2 | 52 | 1607 | 12 | 14 | 1642 | 21 | 48 | 1677 | 31 | 22 |
| 1573 | 3 | 8  | 1608 | 12 | 31 | 1643 | 22 | 4  | 1678 | 31 | 39 |
| 1574 | 3 | 24 | 1609 | 12 | 47 | 1644 | 22 | 21 | 1679 | 31 | 55 |
| 1575 | 3 | 40 | 1610 | 13 | 4  | 1645 | 22 | 37 | 1680 | 32 | 12 |
| 1576 | 3 | 56 | 1611 | 13 | 20 | 1646 | 22 | 54 | 1681 | 32 | 28 |
| 1577 | 4 | 12 | 1612 | 13 | 36 | 1647 | 23 | 10 | 1682 | 32 | 44 |
| 1578 | 4 | 28 | 1613 | 13 | 52 | 1648 | 23 | 27 | 1683 | 33 | 1  |
| 1579 | 4 | 44 | 1614 | 14 | 9  | 1649 | 23 | 43 | 1684 | 33 | 17 |
| 1580 | 5 | 0  | 1615 | 14 | 25 | 1650 | 23 | 59 | 1685 | 33 | 33 |
| 1581 | 5 | 16 | 1616 | 14 | 41 | 1651 | 24 | 16 | 1686 | 33 | 50 |
| 1582 | 5 | 32 | 1617 | 14 | 57 | 1652 | 24 | 32 | 1687 | 34 | 6  |
| 1583 | 5 | 48 | 1618 | 15 | 14 | 1653 | 24 | 49 | 1688 | 34 | 23 |
| 1584 | 6 | 14 | 1619 | 15 | 30 | 1654 | 25 | 5  | 1689 | 34 | 39 |
| 1585 | 6 | 30 | 1620 | 15 | 46 | 1655 | 25 | 22 | 1690 | 34 | 55 |
| 1586 | 6 | 36 | 1621 | 16 | 3  | 1656 | 25 | 38 | 1691 | 35 | 12 |
| 1587 | 6 | 52 | 1622 | 16 | 19 | 1657 | 25 | 55 | 1692 | 35 | 28 |
| 1588 | 7 | 8  | 1623 | 16 | 36 | 1658 | 26 | 11 | 1693 | 35 | 44 |
| 1589 | 7 | 24 | 1624 | 16 | 52 | 1659 | 26 | 28 | 1694 | 36 | 0  |
| 1590 | 7 | 40 | 1625 | 17 | 8  | 1660 | 26 | 44 | 1695 | 36 | 17 |
| 1591 | 7 | 56 | 1626 | 17 | 25 | 1661 | 27 | 0  | 1696 | 36 | 33 |
| 1592 | 8 | 12 | 1627 | 17 | 41 | 1662 | 27 | 37 | 1697 | 36 | 49 |
| 1593 | 8 | 28 | 1628 | 17 | 58 | 1663 | 27 | 33 | 1698 | 37 | 5  |
| 1594 | 8 | 44 | 1629 | 18 | 14 | 1664 | 27 | 50 | 1699 | 37 | 22 |
| 1595 | 9 | 0  | 1630 | 18 | 31 | 1665 | 28 | 6  | 1700 | 37 | 38 |
| 1596 | 9 | 16 | 1631 | 18 | 47 | 1666 | 28 | 22 |      |    |    |



ernicea.

| ni  | I  | II |
|-----|----|----|
| 66  | 28 | 22 |
| 67  | 28 | 39 |
| 68  | 28 | 55 |
| 69  | 29 | 11 |
| 70  | 29 | 28 |
| 71  | 29 | 44 |
| 72  | 30 | 1  |
| 73  | 30 | 17 |
| 74  | 30 | 33 |
| 75  | 30 | 50 |
| 76  | 31 | 6  |
| 77  | 31 | 22 |
| 78  | 31 | 39 |
| 79  | 31 | 55 |
| 80  | 32 | 12 |
| 81  | 32 | 28 |
| 82  | 32 | 44 |
| 83  | 33 | 1  |
| 84  | 33 | 17 |
| 85  | 33 | 33 |
| 86  | 33 | 50 |
| 87  | 34 | 6  |
| 88  | 34 | 23 |
| 89  | 34 | 39 |
| 90  | 34 | 55 |
| 91  | 35 | 12 |
| 92  | 35 | 28 |
| 93  | 35 | 44 |
| 94  | 36 | 0  |
| 95  | 36 | 17 |
| 96  | 36 | 33 |
| 97  | 36 | 49 |
| 98  | 37 | 5  |
| 99  | 37 | 22 |
| 100 | 37 | 38 |

T A B V L A E  
 A E Q V A B I L I V M,  
 S E V M E D I O R V M  
 Motuum Solis Tychonicæ  
*Ad Meridianum Inclytæ Venetiarum Urbis*  
 A I O A N. A N T O N I O M A G I N O  
 A C C O M M O D A T A E.

Supplementum Ephemeridum,  
Radices Aequalium motuum Solis ad hos annos.

| Anni   | Apogæi Solis. |   |    |    | Longitudinis Solis ab<br>Æquinoctio. |    |    |    |     |
|--------|---------------|---|----|----|--------------------------------------|----|----|----|-----|
|        | S             | P | I  | II | S                                    | P  | I  | II | III |
| B 1500 | 3             | 4 | 24 | 45 | 9                                    | 19 | 9  | 24 | 35  |
| 1501   | 3             | 4 | 25 | 30 | 9                                    | 18 | 55 | 5  | 13  |
| 1502   | 3             | 4 | 26 | 15 | 9                                    | 18 | 40 | 45 | 51  |
| 1503   | 3             | 4 | 27 | 0  | 9                                    | 18 | 26 | 26 | 30  |
| B 1504 | 3             | 4 | 27 | 45 | 9                                    | 19 | 11 | 15 | 28  |
| 1505   | 3             | 4 | 28 | 30 | 9                                    | 18 | 56 | 56 | 6   |
| 1506   | 3             | 4 | 29 | 15 | 9                                    | 18 | 42 | 36 | 44  |
| 1507   | 3             | 4 | 30 | 0  | 9                                    | 18 | 28 | 17 | 23  |
| B 1508 | 3             | 4 | 30 | 45 | 9                                    | 19 | 13 | 6  | 21  |
| 1509   | 3             | 4 | 31 | 30 | 9                                    | 18 | 58 | 46 | 59  |
| 1510   | 3             | 4 | 32 | 15 | 9                                    | 18 | 44 | 27 | 38  |
| 1511   | 3             | 4 | 33 | 0  | 9                                    | 18 | 30 | 8  | 16  |
| B 1512 | 3             | 4 | 33 | 45 | 9                                    | 19 | 14 | 57 | 14  |
| 1513   | 3             | 4 | 34 | 30 | 9                                    | 19 | 0  | 37 | 52  |
| 1514   | 3             | 4 | 35 | 15 | 9                                    | 18 | 46 | 18 | 31  |
| 1515   | 3             | 4 | 36 | 0  | 9                                    | 18 | 31 | 59 | 9   |
| B 1516 | 3             | 4 | 36 | 45 | 9                                    | 19 | 16 | 48 | 7   |
| 1517   | 3             | 4 | 37 | 30 | 9                                    | 19 | 2  | 28 | 46  |
| 1518   | 3             | 4 | 38 | 15 | 9                                    | 18 | 48 | 9  | 24  |
| 1519   | 3             | 4 | 39 | 0  | 9                                    | 18 | 33 | 50 | 2   |
| B 1520 | 3             | 4 | 39 | 45 | 9                                    | 19 | 18 | 39 | 0   |
| 1521   | 3             | 4 | 40 | 30 | 9                                    | 19 | 4  | 19 | 39  |
| 1522   | 3             | 4 | 41 | 15 | 9                                    | 18 | 50 | 0  | 17  |
| 1523   | 3             | 4 | 42 | 0  | 9                                    | 18 | 35 | 40 | 55  |
| B 1524 | 3             | 4 | 42 | 45 | 9                                    | 19 | 20 | 29 | 53  |
| 1525   | 3             | 4 | 43 | 30 | 9                                    | 19 | 6  | 10 | 32  |
| 1526   | 3             | 4 | 44 | 15 | 9                                    | 18 | 51 | 51 | 10  |
| 1527   | 3             | 4 | 45 | 0  | 9                                    | 18 | 37 | 31 | 48  |
| B 1528 | 3             | 4 | 45 | 45 | 9                                    | 19 | 22 | 20 | 47  |
| 1529   | 3             | 4 | 46 | 30 | 9                                    | 19 | 8  | 1  | 25  |
| 1530   | 3             | 4 | 47 | 15 | 9                                    | 18 | 53 | 42 | 3   |
| 1531   | 3             | 4 | 48 | 0  | 9                                    | 18 | 39 | 22 | 42  |
| B 1532 | 3             | 4 | 48 | 45 | 9                                    | 19 | 24 | 11 | 40  |
| 1533   | 3             | 4 | 49 | 30 | 9                                    | 19 | 9  | 52 | 18  |



# Ac Tab. Secundorum Mobilium.

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*Radices Aequalium motuum Solis ad hos annos.*

Solis ab  
Rio.

| II | III |
|----|-----|
| 24 | 35  |
| 5  | 13  |
| 45 | 51  |
| 26 | 30  |
| 15 | 28  |
| 56 | 6   |
| 36 | 44  |
| 17 | 23  |
| 6  | 21  |
| 46 | 59  |
| 27 | 38  |
| 8  | 16  |
| 57 | 14  |
| 37 | 52  |
| 18 | 31  |
| 59 | 9   |
| 48 | 7   |
| 28 | 46  |
| 9  | 24  |
| 50 | 2   |
| 39 | 0   |
| 19 | 39  |
| 0  | 17  |
| 40 | 55  |
| 29 | 53  |
| 10 | 32  |
| 51 | 10  |
| 31 | 48  |
| 20 | 47  |
| 1  | 25  |
| 42 | 3   |
| 22 | 42  |
| 11 | 40  |
| 52 | 18  |

| Anni   | Apogæi Solis. |    |    |    | Longitudinis Solis ab<br>Aequinoctio. |    |    |    |     |
|--------|---------------|----|----|----|---------------------------------------|----|----|----|-----|
|        | S.            | P. | I. | II | S.                                    | P. | I. | II | III |
| 1534   | 3             | 4  | 50 | 15 | 9                                     | 18 | 55 | 32 | 56  |
| 1535   | 3             | 4  | 51 | 0  | 9                                     | 18 | 41 | 13 | 35  |
| B 1536 | 3             | 4  | 51 | 45 | 9                                     | 19 | 26 | 2  | 33  |
| 1537   | 3             | 4  | 52 | 30 | 9                                     | 19 | 11 | 43 | 11  |
| 1538   | 3             | 4  | 53 | 15 | 9                                     | 18 | 57 | 23 | 49  |
| 1539   | 3             | 4  | 54 | 0  | 9                                     | 18 | 43 | 4  | 28  |
| B 1540 | 3             | 4  | 54 | 45 | 9                                     | 19 | 27 | 53 | 26  |
| 1541   | 3             | 4  | 55 | 30 | 9                                     | 19 | 13 | 34 | 4   |
| 1542   | 3             | 4  | 56 | 15 | 9                                     | 18 | 59 | 14 | 43  |
| 1543   | 3             | 4  | 57 | 0  | 9                                     | 18 | 44 | 55 | 21  |
| B 1544 | 3             | 4  | 57 | 45 | 9                                     | 19 | 29 | 44 | 19  |
| 1545   | 3             | 4  | 58 | 30 | 9                                     | 19 | 15 | 24 | 57  |
| 1546   | 3             | 4  | 59 | 15 | 9                                     | 19 | 1  | 5  | 36  |
| 1547   | 3             | 5  | 0  | 0  | 9                                     | 18 | 46 | 46 | 14  |
| B 1548 | 3             | 5  | 0  | 45 | 9                                     | 19 | 31 | 35 | 12  |
| 1549   | 3             | 5  | 1  | 30 | 9                                     | 19 | 17 | 15 | 50  |
| 1550   | 3             | 5  | 2  | 15 | 9                                     | 19 | 2  | 56 | 28  |
| 1551   | 3             | 5  | 3  | 0  | 9                                     | 18 | 48 | 37 | 7   |
| B 1552 | 3             | 5  | 3  | 45 | 9                                     | 19 | 33 | 26 | 5   |
| 1553   | 3             | 5  | 4  | 30 | 9                                     | 19 | 19 | 6  | 44  |
| 1554   | 3             | 5  | 5  | 15 | 9                                     | 19 | 4  | 47 | 22  |
| 1555   | 3             | 5  | 6  | 0  | 9                                     | 18 | 50 | 28 | 0   |
| B 1556 | 3             | 5  | 6  | 45 | 9                                     | 19 | 35 | 16 | 58  |
| 1557   | 3             | 5  | 7  | 30 | 9                                     | 19 | 20 | 57 | 37  |
| 1558   | 3             | 5  | 8  | 15 | 9                                     | 19 | 6  | 38 | 15  |
| 1559   | 3             | 5  | 9  | 0  | 9                                     | 18 | 52 | 18 | 53  |
| B 1560 | 3             | 5  | 9  | 45 | 9                                     | 19 | 36 | 7  | 52  |
| 1561   | 3             | 5  | 10 | 30 | 9                                     | 19 | 22 | 48 | 30  |
| 1562   | 3             | 5  | 11 | 15 | 9                                     | 19 | 8  | 29 | 8   |
| 1563   | 3             | 5  | 12 | 0  | 9                                     | 18 | 54 | 9  | 46  |
| B 1564 | 3             | 5  | 12 | 45 | 9                                     | 19 | 39 | 58 | 45  |
| 1565   | 3             | 5  | 13 | 30 | 9                                     | 19 | 24 | 39 | 23  |
| 1566   | 3             | 5  | 14 | 15 | 9                                     | 19 | 10 | 20 | 1   |
| 1567   | 3             | 5  | 15 | 0  | 9                                     | 18 | 56 | 0  | 40  |

Supplementum Ephemeridum,  
Radices Aequalium motuum Solis ad hos annos.

| Anni                          | Apogæi Solis. |   |    |    | Longitudinis Solis ab<br>Aequinoctio. |    |    |    |     |
|-------------------------------|---------------|---|----|----|---------------------------------------|----|----|----|-----|
|                               | S             | P | I  | II | S                                     | P  | I  | II | III |
| B 1568                        | 3             | 5 | 15 | 45 | 9                                     | 19 | 40 | 49 | 38  |
| 1569                          | 3             | 5 | 16 | 30 | 9                                     | 19 | 26 | 30 | 16  |
| 1570                          | 3             | 5 | 17 | 15 | 9                                     | 19 | 12 | 10 | 54  |
| 1571                          | 3             | 5 | 18 | 0  | 9                                     | 18 | 57 | 51 | 33  |
| B 1572                        | 3             | 5 | 18 | 45 | 9                                     | 19 | 42 | 40 | 31  |
| 1573                          | 3             | 5 | 19 | 30 | 9                                     | 19 | 28 | 21 | 9   |
| 1574                          | 3             | 5 | 20 | 15 | 9                                     | 19 | 14 | 1  | 48  |
| 1575                          | 3             | 5 | 21 | 0  | 9                                     | 18 | 59 | 42 | 26  |
| B 1576                        | 3             | 5 | 21 | 45 | 9                                     | 19 | 44 | 31 | 24  |
| 1577                          | 3             | 5 | 22 | 30 | 9                                     | 19 | 30 | 12 | 2   |
| 1578                          | 3             | 5 | 23 | 15 | 9                                     | 19 | 15 | 52 | 41  |
| 1579                          | 3             | 5 | 24 | 0  | 9                                     | 19 | 1  | 33 | 19  |
| B 1580                        | 3             | 5 | 24 | 45 | 9                                     | 19 | 46 | 22 | 17  |
| 1581                          | 3             | 5 | 25 | 30 | 9                                     | 19 | 32 | 2  | 55  |
| 1582                          | 3             | 5 | 26 | 15 | 9                                     | 9  | 26 | 20 | 15  |
|                               |               |   |    |    |                                       |    |    | 0  | 54  |
| Radices in annis Gregorianis. |               |   |    |    |                                       |    |    |    |     |
| 1583                          | 3             | 5 | 27 | 0  | 9                                     | 9  | 12 | 0  | 54  |
| B 1584                        | 3             | 5 | 27 | 45 | 9                                     | 9  | 56 | 49 | 52  |
| 1585                          | 3             | 5 | 28 | 30 | 9                                     | 9  | 42 | 30 | 30  |
| 1586                          | 3             | 5 | 29 | 15 | 9                                     | 9  | 28 | 11 | 9   |
| 1587                          | 3             | 5 | 30 | 0  | 9                                     | 9  | 12 | 51 | 47  |
| B 1588                        | 3             | 5 | 30 | 45 | 9                                     | 9  | 58 | 40 | 45  |
| 1589                          | 3             | 5 | 31 | 30 | 9                                     | 9  | 44 | 21 | 23  |
| 1590                          | 3             | 5 | 32 | 15 | 9                                     | 9  | 30 | 2  | 2   |
| 1591                          | 3             | 5 | 33 | 0  | 9                                     | 9  | 15 | 42 | 40  |
| B 1592                        | 3             | 5 | 33 | 45 | 9                                     | 10 | 0  | 31 | 38  |
| 1593                          | 3             | 5 | 34 | 30 | 9                                     | 9  | 46 | 12 | 16  |
| 1594                          | 3             | 5 | 35 | 15 | 9                                     | 9  | 31 | 52 | 55  |
| 1595                          | 3             | 5 | 36 | 0  | 9                                     | 9  | 17 | 33 | 33  |
| B 1596                        | 3             | 5 | 36 | 45 | 9                                     | 10 | 2  | 22 | 31  |
| 1597                          | 3             | 5 | 37 | 30 | 9                                     | 9  | 48 | 3  | 10  |
| 1598                          | 3             | 5 | 38 | 15 | 9                                     | 9  | 33 | 43 | 48  |
| 1599                          | 3             | 5 | 39 | 0  | 9                                     | 9  | 19 | 24 | 26  |



# Ac Tab. Secundorum Mobilium.

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Radices Aequalium motuum Solis ad hos annos.

| s Solis ab<br>Equino. |     |
|-----------------------|-----|
| ''                    | ''' |
| 49                    | 38  |
| 30                    | 16  |
| 10                    | 54  |
| 51                    | 33  |
| 40                    | 31  |
| 21                    | 9   |
| 1                     | 48  |
| 42                    | 26  |
| 31                    | 24  |
| 12                    | 2   |
| 52                    | 41  |
| 33                    | 19  |
| 22                    | 17  |
| 2                     | 55  |
| 20                    | 15  |
| 0                     | 54  |
|                       |     |
| 0                     | 54  |
| 49                    | 52  |
| 30                    | 30  |
| 11                    | 9   |
| 51                    | 47  |
| 40                    | 45  |
| 21                    | 23  |
| 2                     | 2   |
| 42                    | 40  |
| 31                    | 38  |
| 12                    | 16  |
| 52                    | 55  |
| 33                    | 33  |
| 22                    | 31  |
| 3                     | 10  |
| 43                    | 48  |
| 24                    | 26  |

| Anni   | Apogæi Solis. |   |    |    | Longitudinis Solis ab<br>Equinoctio. |    |    |    |     |
|--------|---------------|---|----|----|--------------------------------------|----|----|----|-----|
|        | S             | P | i  | '' | S                                    | P  | i  | '' | ''' |
| B 1600 | 3             | 5 | 39 | 45 | 9                                    | 10 | 4  | 13 | 24  |
| 1601   | 3             | 5 | 40 | 30 | 9                                    | 9  | 49 | 54 | 3   |
| 1602   | 3             | 5 | 41 | 15 | 9                                    | 9  | 35 | 34 | 41  |
| 1603   | 3             | 5 | 42 | 0  | 9                                    | 9  | 21 | 15 | 19  |
| B 1604 | 3             | 5 | 42 | 45 | 9                                    | 10 | 6  | 4  | 18  |
| 1605   | 3             | 5 | 43 | 30 | 9                                    | 9  | 51 | 44 | 56  |
| 1606   | 3             | 5 | 44 | 15 | 9                                    | 9  | 37 | 25 | 34  |
| 1607   | 3             | 5 | 45 | 0  | 9                                    | 9  | 23 | 6  | 12  |
| B 1608 | 3             | 5 | 45 | 45 | 9                                    | 10 | 7  | 55 | 11  |
| 1609   | 3             | 5 | 46 | 30 | 9                                    | 9  | 53 | 35 | 49  |
| 1610   | 3             | 5 | 47 | 15 | 9                                    | 9  | 39 | 16 | 17  |
| 1611   | 3             | 5 | 48 | 0  | 9                                    | 9  | 24 | 57 | 6   |
| B 1612 | 3             | 5 | 48 | 45 | 9                                    | 10 | 9  | 46 | 4   |
| 1613   | 3             | 5 | 49 | 30 | 9                                    | 9  | 55 | 26 | 42  |
| 1614   | 3             | 5 | 50 | 15 | 9                                    | 9  | 41 | 7  | 20  |
| 1615   | 3             | 5 | 51 | 0  | 9                                    | 9  | 26 | 47 | 59  |
| B 1616 | 3             | 5 | 51 | 45 | 9                                    | 10 | 11 | 36 | 57  |
| 1617   | 3             | 5 | 52 | 30 | 9                                    | 9  | 57 | 17 | 36  |
| 1618   | 3             | 5 | 53 | 15 | 9                                    | 9  | 42 | 58 | 14  |
| 1619   | 3             | 5 | 54 | 0  | 9                                    | 9  | 28 | 38 | 52  |
| B 1620 | 3             | 5 | 54 | 45 | 9                                    | 10 | 13 | 27 | 50  |
| 1621   | 3             | 5 | 55 | 30 | 9                                    | 9  | 59 | 8  | 28  |
| 1622   | 3             | 5 | 56 | 15 | 9                                    | 9  | 44 | 49 | 7   |
| 1623   | 3             | 5 | 57 | 0  | 9                                    | 9  | 30 | 29 | 45  |
| B 1624 | 3             | 5 | 57 | 45 | 9                                    | 10 | 15 | 18 | 43  |
| 1625   | 3             | 5 | 58 | 30 | 9                                    | 10 | 0  | 59 | 21  |
| 1626   | 3             | 5 | 59 | 15 | 9                                    | 9  | 46 | 40 | 0   |
| 1627   | 3             | 6 | 0  | 0  | 9                                    | 9  | 32 | 20 | 38  |
| B 1628 | 3             | 6 | 0  | 45 | 9                                    | 10 | 17 | 9  | 36  |
| 1629   | 3             | 6 | 1  | 30 | 9                                    | 10 | 2  | 50 | 15  |
| 1630   | 3             | 6 | 2  | 15 | 9                                    | 9  | 48 | 30 | 53  |
| 1631   | 3             | 6 | 3  | 0  | 9                                    | 9  | 34 | 11 | 31  |
| B 1632 | 3             | 6 | 3  | 45 | 9                                    | 10 | 19 | 0  | 29  |
| 1633   | 3             | 6 | 4  | 30 | 9                                    | 10 | 4  | 41 | 8   |

| Anni   | Apogæi Solis. |   |    |    | Longitudinis Solis ab<br>Acquinoctio. |    |    |    |    |
|--------|---------------|---|----|----|---------------------------------------|----|----|----|----|
|        | S             | P | i  | u  | S                                     | P  | i  | u  | u  |
| 1633   | 3             | 6 | 4  | 30 | 9                                     | 10 | 4  | 41 | 8  |
| 1634   | 3             | 6 | 5  | 15 | 9                                     | 9  | 50 | 21 | 46 |
| 1635   | 3             | 6 | 6  | 0  | 9                                     | 9  | 36 | 2  | 24 |
| B 1636 | 3             | 6 | 6  | 45 | 9                                     | 10 | 20 | 51 | 22 |
| 1637   | 3             | 6 | 7  | 30 | 9                                     | 10 | 6  | 32 | 1  |
| 1638   | 3             | 6 | 8  | 15 | 9                                     | 9  | 52 | 12 | 39 |
| 1639   | 3             | 6 | 9  | 0  | 9                                     | 9  | 37 | 53 | 17 |
| B 1640 | 3             | 6 | 9  | 45 | 9                                     | 10 | 22 | 42 | 16 |
| 1641   | 3             | 6 | 10 | 30 | 9                                     | 10 | 8  | 22 | 54 |
| 1642   | 3             | 6 | 11 | 15 | 9                                     | 9  | 54 | 3  | 32 |
| 1643   | 3             | 6 | 12 | 0  | 9                                     | 9  | 39 | 44 | 11 |
| B 1644 | 3             | 6 | 12 | 45 | 9                                     | 10 | 24 | 33 | 9  |
| 1645   | 3             | 6 | 13 | 30 | 9                                     | 10 | 10 | 13 | 47 |
| 1646   | 3             | 6 | 14 | 15 | 9                                     | 9  | 55 | 54 | 25 |
| 1647   | 3             | 6 | 15 | 0  | 9                                     | 9  | 41 | 35 | 4  |
| B 1648 | 3             | 6 | 15 | 45 | 9                                     | 10 | 26 | 24 | 2  |
| 1649   | 3             | 6 | 16 | 30 | 9                                     | 10 | 12 | 4  | 40 |
| 1650   | 3             | 6 | 17 | 15 | 9                                     | 9  | 57 | 45 | 18 |
| 1651   | 3             | 6 | 18 | 0  | 9                                     | 9  | 43 | 25 | 57 |
| B 1652 | 3             | 6 | 18 | 45 | 9                                     | 10 | 28 | 14 | 35 |
| 1653   | 3             | 6 | 19 | 30 | 9                                     | 10 | 13 | 55 | 33 |
| 1654   | 3             | 6 | 20 | 15 | 9                                     | 9  | 59 | 36 | 12 |
| 1655   | 3             | 6 | 21 | 0  | 9                                     | 9  | 45 | 16 | 50 |
| B 1656 | 3             | 6 | 21 | 45 | 9                                     | 10 | 30 | 5  | 48 |
| 1657   | 3             | 6 | 22 | 30 | 9                                     | 10 | 15 | 46 | 26 |
| 1658   | 3             | 6 | 23 | 15 | 9                                     | 10 | 1  | 27 | 5  |
| 1659   | 3             | 6 | 24 | 0  | 9                                     | 9  | 47 | 7  | 43 |
| B 1660 | 3             | 6 | 24 | 45 | 9                                     | 10 | 31 | 56 | 41 |
| 1661   | 3             | 6 | 25 | 30 | 9                                     | 10 | 17 | 37 | 20 |
| 1662   | 3             | 6 | 26 | 15 | 9                                     | 10 | 3  | 17 | 58 |
| 1663   | 3             | 6 | 27 | 0  | 9                                     | 9  | 48 | 58 | 36 |
| B 1664 | 3             | 6 | 27 | 45 | 9                                     | 10 | 33 | 47 | 34 |
| 1665   | 3             | 6 | 28 | 30 | 9                                     | 10 | 19 | 28 | 13 |
| 1666   | 3             | 6 | 29 | 15 | 9                                     | 10 | 5  | 8  | 51 |



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Radices Aequalium motuum Solis ad hos annos.

| is Solis ab<br>octio. |    |     |
|-----------------------|----|-----|
|                       | II | III |
| 4                     | 41 | 8   |
| 5                     | 21 | 46  |
| 6                     | 2  | 24  |
| 7                     | 51 | 22  |
| 8                     | 32 | 1   |
| 9                     | 12 | 39  |
| 10                    | 53 | 17  |
| 11                    | 42 | 16  |
| 12                    | 22 | 54  |
| 13                    | 3  | 32  |
| 14                    | 44 | 11  |
| 15                    | 33 | 9   |
| 16                    | 13 | 47  |
| 17                    | 54 | 25  |
| 18                    | 35 | 4   |
| 19                    | 24 | 2   |
| 20                    | 4  | 40  |
| 21                    | 45 | 18  |
| 22                    | 25 | 57  |
| 23                    | 14 | 35  |
| 24                    | 55 | 33  |
| 25                    | 36 | 12  |
| 26                    | 16 | 50  |
| 27                    | 5  | 48  |
| 28                    | 46 | 26  |
| 29                    | 27 | 5   |
| 30                    | 7  | 43  |
| 31                    | 56 | 41  |
| 32                    | 37 | 20  |
| 33                    | 17 | 58  |
| 34                    | 58 | 36  |
| 35                    | 47 | 34  |
| 36                    | 28 | 13  |
| 37                    | 8  | 51  |

| Anni   | Apogæi Solis. |   |    |    | Longitudinis Solis ab<br>Acquinoctio. |    |    |    |     |
|--------|---------------|---|----|----|---------------------------------------|----|----|----|-----|
|        | S             | P | I  | II | S                                     | P  | I  | II | III |
| 1667   | 3             | 6 | 30 | 0  | 9                                     | 9  | 50 | 49 | 29  |
| B 1668 | 3             | 6 | 30 | 45 | 9                                     | 10 | 35 | 38 | 27  |
| 1669   | 3             | 6 | 31 | 30 | 9                                     | 10 | 21 | 19 | 6   |
| 1670   | 3             | 6 | 32 | 15 | 9                                     | 10 | 6  | 59 | 44  |
| 1671   | 3             | 6 | 33 | 0  | 9                                     | 9  | 52 | 40 | 22  |
| B 1672 | 3             | 6 | 33 | 45 | 9                                     | 10 | 37 | 29 | 21  |
| 1673   | 3             | 6 | 34 | 30 | 9                                     | 10 | 23 | 9  | 59  |
| 1674   | 3             | 6 | 35 | 15 | 9                                     | 10 | 8  | 50 | 37  |
| 1675   | 3             | 6 | 36 | 0  | 9                                     | 9  | 54 | 31 | 16  |
| B 1676 | 3             | 6 | 36 | 45 | 9                                     | 10 | 39 | 20 | 14  |
| 1677   | 3             | 6 | 37 | 30 | 9                                     | 10 | 25 | 0  | 52  |
| 1678   | 3             | 6 | 38 | 15 | 9                                     | 10 | 10 | 41 | 30  |
| 1679   | 3             | 6 | 39 | 0  | 9                                     | 9  | 56 | 22 | 9   |
| B 1680 | 3             | 6 | 39 | 45 | 9                                     | 10 | 41 | 11 | 9   |
| 1681   | 3             | 6 | 40 | 30 | 9                                     | 10 | 26 | 51 | 45  |
| 1682   | 3             | 6 | 41 | 15 | 9                                     | 10 | 12 | 32 | 23  |
| 1683   | 3             | 6 | 42 | 0  | 9                                     | 9  | 58 | 13 | 2   |
| B 1684 | 3             | 6 | 42 | 45 | 9                                     | 10 | 43 | 2  | 0   |
| 1685   | 3             | 6 | 43 | 30 | 9                                     | 10 | 28 | 42 | 38  |
| 1686   | 3             | 6 | 44 | 15 | 9                                     | 10 | 14 | 23 | 17  |
| 1687   | 3             | 6 | 45 | 0  | 9                                     | 10 | 0  | 3  | 55  |
| B 1688 | 3             | 6 | 45 | 45 | 9                                     | 10 | 44 | 52 | 53  |
| 1689   | 3             | 6 | 46 | 30 | 9                                     | 10 | 30 | 33 | 31  |
| 1690   | 3             | 6 | 47 | 15 | 9                                     | 10 | 16 | 14 | 10  |
| 1691   | 3             | 6 | 48 | 0  | 9                                     | 10 | 1  | 54 | 48  |
| B 1692 | 3             | 6 | 48 | 45 | 9                                     | 10 | 46 | 43 | 46  |
| 1693   | 3             | 6 | 49 | 30 | 9                                     | 10 | 32 | 24 | 24  |
| 1694   | 3             | 6 | 50 | 15 | 9                                     | 10 | 18 | 5  | 3   |
| 1695   | 3             | 6 | 51 | 0  | 9                                     | 10 | 3  | 45 | 41  |
| B 1696 | 3             | 6 | 51 | 45 | 9                                     | 10 | 48 | 34 | 39  |
| 1697   | 3             | 6 | 52 | 30 | 9                                     | 10 | 34 | 15 | 18  |
| 1698   | 3             | 6 | 53 | 15 | 9                                     | 10 | 19 | 55 | 56  |
| 1699   | 3             | 6 | 54 | 0  | 9                                     | 10 | 5  | 36 | 34  |
| B 1700 | 3             | 6 | 54 | 45 | 9                                     | 9  | 51 | 17 | 13  |

| Bifextilis | Communis | IANVARIVS                        |   |    |    |    |     |           | FEBRVARIVS                       |    |    |    |     |    |           |
|------------|----------|----------------------------------|---|----|----|----|-----|-----------|----------------------------------|----|----|----|-----|----|-----------|
|            |          | Longitudo Solis<br>ab Aequinoct. |   |    |    |    |     | A<br>pog. | Longitudo Solis<br>ab Aequinoct. |    |    |    |     |    | A<br>pog. |
|            |          | Dies                             | S | P  | I  | II | III |           | S                                | P  | I  | II | III | IV |           |
| 1          | 1        | 1                                | 0 | 0  | 59 | 8  | 20  | 0         | 1                                | 1  | 32 | 26 | 35  |    | 4         |
| 2          | 2        | 2                                | 0 | 1  | 58 | 16 | 40  | 0         | 1                                | 2  | 31 | 34 | 54  |    | 4         |
| 3          | 3        | 3                                | 0 | 2  | 57 | 24 | 59  | 0         | 1                                | 3  | 30 | 43 | 14  |    | 4         |
| 4          | 4        | 4                                | 0 | 3  | 56 | 33 | 19  | 1         | 1                                | 4  | 29 | 51 | 34  |    | 4         |
| 5          | 5        | 5                                | 0 | 4  | 55 | 41 | 39  | 1         | 1                                | 5  | 28 | 59 | 54  |    | 5         |
| 6          | 6        | 6                                | 0 | 5  | 54 | 49 | 59  | 1         | 1                                | 6  | 28 | 8  | 14  |    | 5         |
| 7          | 7        | 7                                | 0 | 6  | 53 | 58 | 19  | 1         | 1                                | 7  | 27 | 16 | 34  |    | 5         |
| 8          | 8        | 8                                | 0 | 7  | 53 | 6  | 39  | 1         | 1                                | 8  | 26 | 24 | 53  |    | 5         |
| 9          | 9        | 9                                | 0 | 8  | 52 | 14 | 58  | 1         | 1                                | 9  | 25 | 33 | 13  |    | 5         |
| 10         | 10       | 10                               | 0 | 9  | 51 | 23 | 18  | 1         | 1                                | 10 | 24 | 41 | 33  |    | 5         |
| 11         | 11       | 11                               | 0 | 10 | 50 | 31 | 38  | 1         | 1                                | 11 | 23 | 49 | 53  |    | 5         |
| 12         | 12       | 12                               | 0 | 11 | 49 | 39 | 58  | 2         | 1                                | 12 | 22 | 58 | 13  |    | 5         |
| 13         | 13       | 13                               | 0 | 12 | 48 | 48 | 18  | 2         | 1                                | 13 | 22 | 6  | 33  |    | 6         |
| 14         | 14       | 14                               | 0 | 13 | 47 | 56 | 38  | 2         | 1                                | 14 | 21 | 14 | 52  |    | 6         |
| 15         | 15       | 15                               | 0 | 14 | 47 | 4  | 57  | 2         | 1                                | 15 | 20 | 23 | 12  |    | 6         |
| 16         | 16       | 16                               | 0 | 15 | 46 | 13 | 17  | 2         | 1                                | 16 | 19 | 31 | 32  |    | 6         |
| 17         | 17       | 17                               | 0 | 16 | 45 | 21 | 37  | 2         | 1                                | 17 | 18 | 39 | 52  |    | 6         |
| 18         | 18       | 18                               | 0 | 17 | 44 | 29 | 57  | 2         | 1                                | 18 | 17 | 48 | 12  |    | 6         |
| 19         | 19       | 19                               | 0 | 18 | 43 | 38 | 17  | 2         | 1                                | 19 | 16 | 56 | 32  |    | 6         |
| 20         | 20       | 20                               | 0 | 19 | 42 | 46 | 37  | 3         | 1                                | 20 | 16 | 4  | 51  |    | 6         |
| 21         | 21       | 21                               | 0 | 20 | 41 | 54 | 56  | 3         | 1                                | 21 | 15 | 13 | 11  |    | 7         |
| 22         | 22       | 22                               | 0 | 21 | 41 | 3  | 16  | 3         | 1                                | 22 | 14 | 21 | 31  |    | 7         |
| 23         | 23       | 23                               | 0 | 22 | 40 | 11 | 36  | 3         | 1                                | 23 | 13 | 29 | 51  |    | 7         |
| 24         | 24       | 24                               | 0 | 23 | 39 | 19 | 56  | 3         | 1                                | 24 | 12 | 38 | 11  |    | 7         |
| 25         | 25       | 25                               | 0 | 24 | 38 | 28 | 16  | 3         | 1                                | 25 | 11 | 46 | 31  |    | 7         |
| 26         | 26       | 26                               | 0 | 25 | 37 | 36 | 36  | 3         | 1                                | 26 | 10 | 54 | 50  |    | 7         |
| 27         | 27       | 27                               | 0 | 26 | 36 | 44 | 55  | 3         | 1                                | 27 | 10 | 3  | 10  |    | 7         |
| 28         | 28       | 28                               | 0 | 27 | 35 | 53 | 15  | 4         | 1                                | 28 | 9  | 11 | 30  |    | 7         |
| 29         | 29       | 29                               | 0 | 28 | 35 | 1  | 35  | 4         | 1                                | 29 | 8  | 19 | 50  |    | 7         |
| 30         | 30       | 30                               | 0 | 29 | 34 | 9  | 55  | 4         |                                  |    |    |    |     |    |           |
| 31         | 31       | 31                               | 1 | 0  | 33 | 18 | 15  | 4         |                                  |    |    |    |     |    |           |



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| I A R I V S    |            |   |
|----------------|------------|---|
| Solis<br>noct. | Apo-<br>g. | " |
| 26 35          | 4          |   |
| 34 54          | 4          |   |
| 43 14          | 4          |   |
| 51 34          | 4          |   |
| 59 54          | 5          |   |
| 8 14           | 5          |   |
| 16 34          | 5          |   |
| 24 53          | 5          |   |
| 33 13          | 5          |   |
| 41 33          | 5          |   |
| 49 53          | 5          |   |
| 58 13          | 5          |   |
| 6 33           | 6          |   |
| 14 52          | 6          |   |
| 23 12          | 6          |   |
| 31 32          | 6          |   |
| 39 52          | 6          |   |
| 48 12          | 6          |   |
| 56 32          | 6          |   |
| 4 51           | 6          |   |
| 13 11          | 7          |   |
| 21 31          | 7          |   |
| 29 51          | 7          |   |
| 38 11          | 7          |   |
| 46 31          | 7          |   |
| 54 50          | 7          |   |
| 3 10           | 7          |   |
| 11 30          | 7          |   |
| 19 50          | 7          |   |

| Biflexilis | Communis | M A R T I V S                   |    |    |    |     |    |   | Apo-<br>g. | A P R I L I S                   |    |     |    |  |  |  | Apo-<br>g. |
|------------|----------|---------------------------------|----|----|----|-----|----|---|------------|---------------------------------|----|-----|----|--|--|--|------------|
|            |          | Longitudo Solis<br>ab Acquinoc. |    |    |    |     |    |   |            | Longitudo Solis<br>ab Acquinoc. |    |     |    |  |  |  |            |
| Dies       |          | S                               | P  | i  | ii | iii | iv | S | P          | i                               | ii | iii | iv |  |  |  |            |
|            | 1        | 1                               | 29 | 8  | 19 | 50  | 8  | 2 | 29         | 41                              | 38 | 5   | 11 |  |  |  |            |
| 1          | 2        | 2                               | 0  | 7  | 28 | 10  | 8  | 3 | 0          | 40                              | 46 | 24  | 11 |  |  |  |            |
| 2          | 3        | 2                               | 1  | 6  | 36 | 30  | 8  | 3 | 1          | 39                              | 54 | 44  | 12 |  |  |  |            |
| 3          | 4        | 2                               | 2  | 5  | 44 | 49  | 8  | 3 | 2          | 39                              | 3  | 4   | 12 |  |  |  |            |
| 4          | 5        | 2                               | 3  | 4  | 53 | 9   | 8  | 3 | 3          | 38                              | 11 | 24  | 12 |  |  |  |            |
| 5          | 6        | 2                               | 4  | 4  | 1  | 29  | 8  | 3 | 4          | 37                              | 19 | 44  | 12 |  |  |  |            |
| 6          | 7        | 2                               | 5  | 3  | 9  | 49  | 8  | 3 | 5          | 36                              | 28 | 4   | 12 |  |  |  |            |
| 7          | 8        | 2                               | 6  | 2  | 18 | 9   | 8  | 3 | 6          | 35                              | 36 | 23  | 12 |  |  |  |            |
| 8          | 9        | 2                               | 7  | 1  | 26 | 29  | 8  | 3 | 7          | 34                              | 44 | 43  | 12 |  |  |  |            |
| 9          | 10       | 2                               | 8  | 0  | 34 | 48  | 9  | 3 | 8          | 33                              | 53 | 3   | 12 |  |  |  |            |
| 10         | 11       | 2                               | 8  | 59 | 43 | 8   | 9  | 3 | 9          | 33                              | 1  | 23  | 13 |  |  |  |            |
| 11         | 12       | 2                               | 9  | 58 | 51 | 28  | 9  | 3 | 10         | 32                              | 9  | 43  | 13 |  |  |  |            |
| 12         | 13       | 2                               | 10 | 57 | 59 | 48  | 9  | 3 | 11         | 31                              | 18 | 3   | 13 |  |  |  |            |
| 13         | 14       | 2                               | 11 | 57 | 8  | 8   | 9  | 3 | 12         | 30                              | 26 | 22  | 13 |  |  |  |            |
| 14         | 15       | 2                               | 12 | 56 | 16 | 27  | 9  | 3 | 13         | 29                              | 34 | 42  | 13 |  |  |  |            |
| 15         | 16       | 2                               | 13 | 55 | 24 | 47  | 9  | 3 | 14         | 28                              | 43 | 2   | 13 |  |  |  |            |
| 16         | 17       | 2                               | 14 | 54 | 33 | 7   | 9  | 3 | 15         | 27                              | 51 | 22  | 13 |  |  |  |            |
| 17         | 18       | 2                               | 15 | 53 | 41 | 27  | 10 | 3 | 16         | 26                              | 59 | 42  | 13 |  |  |  |            |
| 18         | 19       | 2                               | 16 | 52 | 49 | 47  | 10 | 3 | 17         | 26                              | 8  | 2   | 14 |  |  |  |            |
| 19         | 20       | 2                               | 17 | 51 | 58 | 7   | 10 | 3 | 18         | 25                              | 16 | 21  | 14 |  |  |  |            |
| 20         | 21       | 2                               | 18 | 51 | 6  | 26  | 10 | 3 | 19         | 24                              | 24 | 41  | 14 |  |  |  |            |
| 21         | 22       | 2                               | 19 | 50 | 14 | 46  | 10 | 3 | 20         | 23                              | 33 | 1   | 14 |  |  |  |            |
| 22         | 23       | 2                               | 20 | 49 | 23 | 6   | 10 | 3 | 21         | 22                              | 41 | 21  | 14 |  |  |  |            |
| 23         | 24       | 2                               | 21 | 48 | 31 | 26  | 10 | 3 | 22         | 21                              | 49 | 41  | 14 |  |  |  |            |
| 24         | 25       | 2                               | 22 | 47 | 39 | 46  | 10 | 3 | 23         | 20                              | 58 | 1   | 14 |  |  |  |            |
| 25         | 26       | 2                               | 23 | 46 | 48 | 6   | 11 | 3 | 24         | 20                              | 6  | 20  | 14 |  |  |  |            |
| 26         | 27       | 2                               | 24 | 45 | 56 | 25  | 11 | 3 | 25         | 19                              | 14 | 40  | 15 |  |  |  |            |
| 27         | 28       | 2                               | 25 | 45 | 4  | 45  | 11 | 3 | 26         | 18                              | 23 | 0   | 15 |  |  |  |            |
| 28         | 29       | 2                               | 26 | 44 | 13 | 5   | 11 | 3 | 27         | 17                              | 31 | 20  | 15 |  |  |  |            |
| 29         | 30       | 2                               | 27 | 43 | 21 | 25  | 11 | 3 | 28         | 16                              | 39 | 40  | 15 |  |  |  |            |
| 30         | 31       | 2                               | 28 | 42 | 29 | 45  | 11 | 3 | 29         | 15                              | 48 | 0   | 15 |  |  |  |            |
| 31         |          | 2                               | 29 | 41 | 38 | 5   | 11 |   |            |                                 |    |     |    |  |  |  |            |

| Bissexilis | Communis | M A I V S                        |    |    |    |    |    | Apo. | I V N I V S                      |    |    |    |    |    | Apo. |
|------------|----------|----------------------------------|----|----|----|----|----|------|----------------------------------|----|----|----|----|----|------|
|            |          | Longitudo Solis<br>ab Aequinoct. |    |    |    |    |    |      | Longitudo Solis<br>ab Aequinoct. |    |    |    |    |    |      |
|            |          | S                                | P  | r  | u  | u  | u  |      | S                                | P  | r  | u  | u  | u  |      |
|            | 1        | 3                                | 29 | 15 | 48 | 0  | 15 |      | 4                                | 29 | 49 | 6  | 14 | 19 |      |
| 1          | 2        | 4                                | 0  | 14 | 56 | 19 | 15 |      | 5                                | 0  | 48 | 14 | 34 | 19 |      |
| 2          | 3        | 4                                | 1  | 14 | 4  | 39 | 15 |      | 5                                | 1  | 47 | 22 | 54 | 19 |      |
| 3          | 4        | 4                                | 2  | 13 | 12 | 59 | 15 |      | 5                                | 2  | 46 | 31 | 14 | 19 |      |
| 4          | 5        | 4                                | 3  | 12 | 21 | 19 | 16 |      | 5                                | 3  | 45 | 39 | 34 | 19 |      |
| 5          | 6        | 4                                | 4  | 11 | 29 | 39 | 16 |      | 5                                | 4  | 44 | 47 | 53 | 19 |      |
| 6          | 7        | 4                                | 5  | 10 | 37 | 59 | 16 |      | 5                                | 5  | 43 | 56 | 13 | 20 |      |
| 7          | 8        | 4                                | 6  | 9  | 46 | 18 | 16 |      | 5                                | 6  | 43 | 4  | 33 | 20 |      |
| 8          | 9        | 4                                | 7  | 8  | 54 | 38 | 16 |      | 5                                | 7  | 42 | 12 | 53 | 20 |      |
| 9          | 10       | 4                                | 8  | 8  | 2  | 58 | 16 |      | 5                                | 8  | 41 | 21 | 13 | 20 |      |
| 10         | 11       | 4                                | 9  | 7  | 11 | 18 | 16 |      | 5                                | 9  | 40 | 29 | 33 | 20 |      |
| 11         | 12       | 4                                | 10 | 6  | 19 | 38 | 16 |      | 5                                | 10 | 39 | 37 | 52 | 20 |      |
| 12         | 13       | 4                                | 11 | 5  | 27 | 57 | 17 |      | 5                                | 11 | 38 | 46 | 12 | 20 |      |
| 13         | 14       | 4                                | 12 | 4  | 36 | 17 | 17 |      | 5                                | 12 | 37 | 54 | 32 | 20 |      |
| 14         | 15       | 4                                | 13 | 3  | 44 | 27 | 17 |      | 5                                | 13 | 37 | 2  | 52 | 21 |      |
| 15         | 16       | 4                                | 14 | 2  | 52 | 57 | 17 |      | 5                                | 14 | 36 | 11 | 12 | 21 |      |
| 16         | 17       | 4                                | 15 | 2  | 1  | 17 | 17 |      | 5                                | 15 | 35 | 19 | 31 | 21 |      |
| 17         | 18       | 4                                | 16 | 1  | 9  | 37 | 17 |      | 5                                | 16 | 34 | 27 | 51 | 21 |      |
| 18         | 19       | 4                                | 17 | 0  | 17 | 56 | 17 |      | 5                                | 17 | 33 | 36 | 11 | 21 |      |
| 19         | 20       | 4                                | 17 | 59 | 26 | 16 | 17 |      | 5                                | 18 | 32 | 44 | 31 | 21 |      |
| 20         | 21       | 4                                | 18 | 58 | 34 | 36 | 18 |      | 5                                | 19 | 31 | 52 | 51 | 21 |      |
| 21         | 22       | 4                                | 19 | 57 | 42 | 56 | 18 |      | 5                                | 20 | 31 | 1  | 11 | 21 |      |
| 22         | 23       | 4                                | 20 | 56 | 51 | 16 | 18 |      | 5                                | 21 | 30 | 9  | 30 | 22 |      |
| 23         | 24       | 4                                | 21 | 55 | 59 | 36 | 18 |      | 5                                | 22 | 29 | 17 | 50 | 22 |      |
| 24         | 25       | 4                                | 22 | 55 | 7  | 55 | 18 |      | 5                                | 23 | 28 | 26 | 10 | 22 |      |
| 25         | 26       | 4                                | 23 | 54 | 16 | 15 | 18 |      | 5                                | 24 | 27 | 34 | 30 | 22 |      |
| 26         | 27       | 4                                | 24 | 53 | 24 | 35 | 18 |      | 5                                | 25 | 26 | 42 | 50 | 22 |      |
| 27         | 28       | 4                                | 25 | 52 | 32 | 55 | 18 |      | 5                                | 26 | 25 | 51 | 10 | 22 |      |
| 28         | 29       | 4                                | 26 | 51 | 41 | 15 | 18 |      | 5                                | 27 | 24 | 59 | 29 | 22 |      |
| 29         | 30       | 4                                | 27 | 50 | 49 | 35 | 19 |      | 5                                | 28 | 24 | 7  | 49 | 23 |      |
| 30         | 31       | 4                                | 28 | 49 | 57 | 54 | 19 |      | 5                                | 29 | 23 | 16 | 9  | 23 |      |
| 31         |          | 4                                | 29 | 49 | 6  | 14 | 19 |      |                                  |    |    |    |    |    |      |



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| I V S          |            |   |
|----------------|------------|---|
| Solis<br>o. t. | Apo-<br>g. | " |
| 6 14           | 19         |   |
| 4 34           | 19         |   |
| 2 54           | 19         |   |
| 1 14           | 19         |   |
| 9 34           | 19         |   |
| 7 53           | 19         |   |
| 6 13           | 20         |   |
| 4 33           | 20         |   |
| 2 53           | 20         |   |
| 1 13           | 20         |   |
| 9 33           | 20         |   |
| 7 52           | 20         |   |
| 6 12           | 20         |   |
| 4 32           | 20         |   |
| 2 52           | 21         |   |
| 1 12           | 21         |   |
| 9 31           | 21         |   |
| 7 51           | 21         |   |
| 6 11           | 21         |   |
| 4 31           | 21         |   |
| 2 51           | 21         |   |
| 1 11           | 21         |   |
| 9 30           | 22         |   |
| 7 50           | 22         |   |
| 6 10           | 22         |   |
| 4 30           | 22         |   |
| 2 50           | 22         |   |
| 1 10           | 22         |   |
| 9 29           | 22         |   |
| 7 49           | 23         |   |
| 6 9            | 23         |   |

| Bifexilis | Communis | I V L I V S                      |    |    |    |    |    | Apo-<br>g. |
|-----------|----------|----------------------------------|----|----|----|----|----|------------|
|           |          | Longitudo Solis<br>ab Aequinoct. |    |    |    |    |    |            |
|           |          | S                                | P  | i  | u  | u  | u  |            |
| 1         | 2        | 5                                | 29 | 23 | 16 | 9  | 23 |            |
| 2         | 3        | 6                                | 0  | 22 | 24 | 29 | 23 |            |
| 3         | 4        | 6                                | 1  | 21 | 32 | 49 | 23 |            |
| 4         | 5        | 6                                | 2  | 20 | 41 | 9  | 23 |            |
| 5         | 6        | 6                                | 3  | 19 | 49 | 28 | 23 |            |
| 6         | 7        | 6                                | 4  | 18 | 57 | 48 | 23 |            |
| 7         | 8        | 6                                | 5  | 18 | 6  | 8  | 23 |            |
| 8         | 9        | 6                                | 6  | 17 | 14 | 28 | 24 |            |
| 9         | 10       | 6                                | 7  | 16 | 22 | 48 | 24 |            |
| 10        | 11       | 6                                | 8  | 15 | 31 | 8  | 24 |            |
| 11        | 12       | 6                                | 9  | 14 | 39 | 27 | 24 |            |
| 12        | 13       | 6                                | 10 | 13 | 47 | 47 | 24 |            |
| 13        | 14       | 6                                | 11 | 12 | 56 | 7  | 24 |            |
| 14        | 15       | 6                                | 12 | 12 | 4  | 27 | 24 |            |
| 15        | 16       | 6                                | 13 | 11 | 12 | 47 | 24 |            |
| 16        | 17       | 6                                | 14 | 10 | 21 | 7  | 25 |            |
| 17        | 18       | 6                                | 15 | 9  | 29 | 26 | 25 |            |
| 18        | 19       | 6                                | 16 | 8  | 37 | 46 | 25 |            |
| 19        | 20       | 6                                | 17 | 7  | 46 | 6  | 25 |            |
| 20        | 21       | 6                                | 18 | 6  | 54 | 26 | 25 |            |
| 21        | 22       | 6                                | 19 | 6  | 2  | 46 | 25 |            |
| 22        | 23       | 6                                | 20 | 5  | 11 | 6  | 25 |            |
| 23        | 24       | 6                                | 21 | 4  | 19 | 25 | 25 |            |
| 24        | 25       | 6                                | 22 | 3  | 27 | 45 | 26 |            |
| 25        | 26       | 6                                | 23 | 2  | 36 | 5  | 26 |            |
| 26        | 27       | 6                                | 24 | 1  | 44 | 25 | 26 |            |
| 27        | 28       | 6                                | 25 | 0  | 52 | 45 | 26 |            |
| 28        | 29       | 6                                | 26 | 0  | 1  | 5  | 26 |            |
| 29        | 30       | 6                                | 26 | 59 | 9  | 24 | 26 |            |
| 30        | 31       | 6                                | 27 | 58 | 17 | 44 | 26 |            |
| 31        |          | 6                                | 28 | 57 | 26 | 4  | 26 |            |
|           |          | 6                                | 29 | 56 | 34 | 24 | 27 |            |

| A V G V S T V S                  |    |    |    |    |   |    | Apo-<br>g. |
|----------------------------------|----|----|----|----|---|----|------------|
| Longitudo Solis<br>ab Aequinoct. |    |    |    |    |   |    |            |
| S                                | P  | i  | u  | u  | u | u  |            |
| 6                                | 29 | 56 | 34 | 24 |   | 27 |            |
| 7                                | 0  | 55 | 42 | 44 |   | 27 |            |
| 7                                | 1  | 54 | 51 | 3  |   | 27 |            |
| 7                                | 2  | 53 | 59 | 23 |   | 27 |            |
| 7                                | 3  | 53 | 7  | 43 |   | 27 |            |
| 7                                | 4  | 52 | 16 | 3  |   | 27 |            |
| 7                                | 5  | 51 | 24 | 23 |   | 27 |            |
| 7                                | 6  | 50 | 32 | 43 |   | 27 |            |
| 7                                | 7  | 49 | 41 | 2  |   | 28 |            |
| 7                                | 8  | 48 | 49 | 22 |   | 28 |            |
| 7                                | 9  | 47 | 57 | 42 |   | 28 |            |
| 7                                | 10 | 47 | 6  | 2  |   | 28 |            |
| 7                                | 11 | 46 | 14 | 22 |   | 28 |            |
| 7                                | 12 | 45 | 22 | 42 |   | 28 |            |
| 7                                | 13 | 44 | 31 | 1  |   | 28 |            |
| 7                                | 14 | 43 | 39 | 21 |   | 28 |            |
| 7                                | 15 | 42 | 47 | 41 |   | 29 |            |
| 7                                | 16 | 41 | 56 | 1  |   | 29 |            |
| 7                                | 17 | 41 | 4  | 21 |   | 29 |            |
| 7                                | 18 | 40 | 12 | 41 |   | 29 |            |
| 7                                | 19 | 39 | 21 | 0  |   | 29 |            |
| 7                                | 20 | 38 | 29 | 20 |   | 29 |            |
| 7                                | 21 | 37 | 37 | 40 |   | 29 |            |
| 7                                | 22 | 36 | 46 | 0  |   | 29 |            |
| 7                                | 23 | 35 | 54 | 20 |   | 30 |            |
| 7                                | 24 | 35 | 2  | 40 |   | 30 |            |
| 7                                | 25 | 34 | 10 | 59 |   | 30 |            |
| 7                                | 26 | 33 | 19 | 19 |   | 30 |            |
| 7                                | 27 | 32 | 27 | 39 |   | 30 |            |
| 7                                | 28 | 31 | 35 | 59 |   | 30 |            |
| 7                                | 29 | 30 | 44 | 19 |   | 30 |            |
| 8                                | 0  | 29 | 52 | 39 |   | 30 |            |

D

Supplementum Ephemeridum,  
*Tabula Aequalium motuum Solis ad singulos dies anni.*

| Bifexilis | Communis | SEPTEMBER                        |   |    |    |    |       | OCTOBER                          |    |    |    |     |       |
|-----------|----------|----------------------------------|---|----|----|----|-------|----------------------------------|----|----|----|-----|-------|
|           |          | Longitudo Solis<br>ab Aequinoct. |   |    |    |    | Apoq. | Longitudo Solis<br>ab Aequinoct. |    |    |    |     | Apoq. |
|           |          | Dies                             | S | P  | I  | II | III   | S                                | P  | I  | II | III | IV    |
|           | 1        |                                  | 8 | 0  | 29 | 52 | 39    | 9                                | 0  | 4  | 2  | 34  | 34    |
| 1         | 2        |                                  | 8 | 1  | 29 | 0  | 58    | 9                                | 1  | 3  | 10 | 53  | 34    |
| 2         | 3        |                                  | 8 | 2  | 28 | 9  | 18    | 9                                | 2  | 2  | 19 | 13  | 34    |
| 3         | 4        |                                  | 8 | 3  | 27 | 17 | 38    | 9                                | 3  | 1  | 27 | 33  | 34    |
| 4         | 5        |                                  | 8 | 4  | 26 | 25 | 58    | 9                                | 4  | 0  | 35 | 53  | 34    |
| 5         | 6        |                                  | 8 | 5  | 25 | 34 | 18    | 9                                | 4  | 59 | 44 | 13  | 35    |
| 6         | 7        |                                  | 8 | 6  | 24 | 42 | 38    | 9                                | 5  | 58 | 52 | 33  | 35    |
| 7         | 8        |                                  | 8 | 7  | 23 | 50 | 57    | 9                                | 6  | 58 | 0  | 52  | 35    |
| 8         | 9        |                                  | 8 | 8  | 22 | 59 | 17    | 9                                | 7  | 57 | 9  | 12  | 35    |
| 9         | 10       |                                  | 8 | 9  | 22 | 7  | 37    | 9                                | 8  | 56 | 17 | 32  | 35    |
| 10        | 11       |                                  | 8 | 10 | 21 | 15 | 57    | 9                                | 9  | 55 | 25 | 52  | 35    |
| 11        | 12       |                                  | 8 | 11 | 20 | 24 | 17    | 9                                | 10 | 54 | 34 | 12  | 35    |
| 12        | 13       |                                  | 8 | 12 | 19 | 32 | 37    | 9                                | 11 | 53 | 42 | 32  | 35    |
| 13        | 14       |                                  | 8 | 13 | 18 | 40 | 56    | 9                                | 12 | 52 | 50 | 51  | 35    |
| 14        | 15       |                                  | 8 | 14 | 17 | 49 | 16    | 9                                | 13 | 51 | 59 | 11  | 36    |
| 15        | 16       |                                  | 8 | 15 | 16 | 57 | 36    | 9                                | 14 | 51 | 7  | 31  | 36    |
| 16        | 17       |                                  | 8 | 16 | 16 | 5  | 56    | 9                                | 15 | 50 | 15 | 51  | 36    |
| 17        | 18       |                                  | 8 | 17 | 15 | 14 | 16    | 9                                | 16 | 49 | 24 | 11  | 36    |
| 18        | 19       |                                  | 8 | 18 | 14 | 22 | 36    | 9                                | 17 | 48 | 32 | 31  | 36    |
| 19        | 20       |                                  | 8 | 19 | 13 | 30 | 55    | 9                                | 18 | 47 | 40 | 50  | 36    |
| 20        | 21       |                                  | 8 | 20 | 12 | 39 | 15    | 9                                | 19 | 46 | 49 | 10  | 36    |
| 21        | 22       |                                  | 8 | 21 | 11 | 47 | 35    | 9                                | 20 | 45 | 57 | 30  | 36    |
| 22        | 23       |                                  | 8 | 22 | 10 | 55 | 55    | 9                                | 21 | 45 | 5  | 50  | 37    |
| 23        | 24       |                                  | 8 | 23 | 10 | 4  | 15    | 9                                | 22 | 44 | 14 | 10  | 37    |
| 24        | 25       |                                  | 8 | 24 | 9  | 12 | 35    | 9                                | 23 | 43 | 22 | 30  | 37    |
| 25        | 26       |                                  | 8 | 25 | 8  | 20 | 54    | 9                                | 24 | 42 | 30 | 49  | 37    |
| 26        | 27       |                                  | 8 | 26 | 7  | 29 | 14    | 9                                | 25 | 41 | 39 | 9   | 37    |
| 27        | 28       |                                  | 8 | 27 | 6  | 37 | 34    | 9                                | 26 | 40 | 47 | 29  | 37    |
| 28        | 29       |                                  | 8 | 28 | 5  | 45 | 54    | 9                                | 27 | 39 | 55 | 49  | 37    |
| 29        | 30       |                                  | 8 | 29 | 4  | 54 | 14    | 9                                | 28 | 39 | 4  | 9   | 37    |
| 30        | 31       |                                  | 9 | 0  | 4  | 2  | 34    | 9                                | 29 | 38 | 12 | 29  | 37    |
| 31        |          |                                  |   |    |    |    |       | 10                               | 0  | 37 | 20 | 48  | 38    |



Ac Tab. Secundorum Mobilium.  
*Tabula Aequalium motuum Solis ad singulos dies anni.*

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NOVEMBER

| Solis<br>oct. | Apo-<br>g. |
|---------------|------------|
| 11 34         | 34         |
| 10 53         | 34         |
| 9 13          | 34         |
| 7 33          | 34         |
| 5 53          | 34         |
| 4 13          | 35         |
| 2 33          | 35         |
| 0 52          | 35         |
| 9 12          | 35         |
| 17 32         | 35         |
| 25 52         | 35         |
| 34 12         | 35         |
| 42 32         | 35         |
| 50 51         | 35         |
| 59 11         | 36         |
| 7 31          | 36         |
| 15 51         | 36         |
| 24 11         | 36         |
| 32 31         | 36         |
| 40 50         | 36         |
| 49 10         | 36         |
| 57 30         | 36         |
| 5 50          | 37         |
| 14 10         | 37         |
| 22 30         | 37         |
| 30 49         | 37         |
| 39 9          | 37         |
| 47 29         | 37         |
| 55 49         | 37         |
| 4 9           | 37         |
| 12 29         | 37         |
| 20 48         | 38         |

| Biflexilis | Communis | NOVEMBER                         |    |    |    |     |    |    | Apo-<br>g. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|------------|----------|----------------------------------|----|----|----|-----|----|----|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|            |          | Longitudo Solis<br>ab Aequinoct. |    |    |    |     |    |    |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|            |          | S                                | P  | i  | ii | iii | n  |    |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|            | Dies     | 1                                | 2  | 3  | 4  | 5   | 6  | 7  | 8          | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |    |
|            |          | 10                               | 10 | 10 | 10 | 10  | 10 | 10 | 10         | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 |    |
|            |          | 0                                | 1  | 2  | 3  | 4   | 5  | 6  | 7          | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0  |    |
|            |          | 37                               | 36 | 35 | 34 | 33  | 32 | 31 | 30         | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9  | 8  | 7  |    |
|            |          | 20                               | 29 | 37 | 45 | 54  | 2  | 10 | 19         | 27 | 35 | 44 | 52 | 0  | 9  | 17 | 25 | 34 | 42 | 50 | 59 | 7  | 15 | 24 | 32 | 40 | 48 | 57 | 5  | 14 | 22 | 30 |    |
|            |          | 48                               | 8  | 28 | 48 | 8   | 28 | 47 | 7          | 27 | 47 | 7  | 27 | 46 | 6  | 26 | 46 | 6  | 26 | 45 | 5  | 25 | 45 | 25 | 44 | 25 | 44 | 24 | 44 | 4  | 14 | 24 | 43 |
|            |          | 38                               | 38 | 38 | 38 | 38  | 38 | 38 | 38         | 39 | 39 | 39 | 39 | 39 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |

|  |  | DECEMBER                         |    |    |    |     |    |    | Apo-<br>g. |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--|--|----------------------------------|----|----|----|-----|----|----|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|  |  | Longitudo Solis<br>ab Aequinoct. |    |    |    |     |    |    |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|  |  | S                                | P  | i  | ii | iii | n  |    |            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|  |  | 11                               | 11 | 11 | 11 | 11  | 11 | 11 | 11         | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
|  |  | 0                                | 1  | 2  | 3  | 4   | 5  | 6  | 7          | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 0  |
|  |  | 30                               | 39 | 47 | 55 | 4   | 12 | 20 | 29         | 37 | 45 | 54 | 0  | 10 | 19 | 27 | 35 | 44 | 52 | 0  | 9  | 17 | 25 | 34 | 42 | 50 | 58 | 5  | 14 | 22 | 30 | 38 |
|  |  | 43                               | 3  | 23 | 43 | 3   | 23 | 42 | 2          | 22 | 41 | 1  | 41 | 1  | 41 | 21 | 41 | 1  | 41 | 0  | 40 | 20 | 40 | 40 | 39 | 59 | 39 | 19 | 39 | 59 | 48 | 38 |
|  |  | 41                               | 41 | 42 | 42 | 42  | 42 | 42 | 42         | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 44 | 45 |

| DECEMBER                         |    |    |    |     |    |            |
|----------------------------------|----|----|----|-----|----|------------|
| Longitudo Solis<br>ab Aequinoct. |    |    |    |     |    | Apo-<br>g. |
| S                                | P  | i  | ii | iii | n  |            |
| II                               | 0  | 11 | 30 | 43  | 41 |            |
| II                               | 1  | 10 | 39 | 3   | 41 |            |
| II                               | 2  | 9  | 47 | 23  | 42 |            |
| II                               | 3  | 8  | 55 | 43  | 42 |            |
| II                               | 4  | 8  | 4  | 3   | 42 |            |
| II                               | 5  | 7  | 12 | 23  | 42 |            |
| II                               | 6  | 6  | 20 | 42  | 42 |            |
| II                               | 7  | 5  | 29 | 2   | 42 |            |
| II                               | 8  | 4  | 37 | 22  | 42 |            |
| II                               | 9  | 3  | 45 | 42  | 42 |            |
| II                               | 10 | 2  | 54 | 2   | 43 |            |
| II                               | 11 | 2  | 2  | 22  | 43 |            |
| II                               | 12 | 1  | 10 | 41  | 43 |            |
| II                               | 13 | 0  | 19 | 1   | 43 |            |
| II                               | 13 | 59 | 27 | 21  | 43 |            |
| II                               | 14 | 58 | 35 | 41  | 43 |            |
| II                               | 15 | 57 | 44 | 1   | 43 |            |
| II                               | 16 | 56 | 52 | 21  | 43 |            |
| II                               | 17 | 56 | 0  | 40  | 43 |            |
| II                               | 18 | 55 | 9  | 0   | 44 |            |
| II                               | 19 | 54 | 17 | 20  | 44 |            |
| II                               | 20 | 53 | 25 | 40  | 44 |            |
| II                               | 21 | 52 | 34 | 0   | 44 |            |
| II                               | 22 | 51 | 42 | 19  | 44 |            |
| II                               | 23 | 50 | 50 | 39  | 44 |            |
| II                               | 24 | 49 | 58 | 59  | 44 |            |
| II                               | 25 | 49 | 7  | 19  | 44 |            |
| II                               | 26 | 48 | 15 | 39  | 45 |            |
| II                               | 27 | 47 | 23 | 59  | 45 |            |
| II                               | 28 | 46 | 32 | 18  | 45 |            |
| II                               | 29 | 45 | 40 | 38  | 45 |            |
| II                               | 30 | 44 | 48 | 58  | 45 |            |

D 2

## Tabula longitudinis Solis ab Aequinoctio in horis &amp; min.

| Longitudo Solis ab Aequinoctio. |   |    |     |     |     | Longitudo Solis ab Aequinoctio. |   |    |     |     |     |
|---------------------------------|---|----|-----|-----|-----|---------------------------------|---|----|-----|-----|-----|
| Horæ                            | S | P  | I   | II  | III | Min.                            | P | I  | II  | III | III |
| Min.                            | P | I  | II  | III | III | Sec.                            | I | II | III | III | V   |
| Sec.                            | I | II | III | III | V   |                                 |   |    |     |     |     |
| 1                               | 0 | 0  | 2   | 27  | 51  | 31                              | 0 | I  | 16  | 23  | 16  |
| 2                               | 0 | 0  | 4   | 55  | 42  | 32                              | 0 | I  | 18  | 51  | 6   |
| 3                               | 0 | 0  | 7   | 23  | 32  | 33                              | 0 | I  | 21  | 18  | 57  |
| 4                               | 0 | 0  | 9   | 51  | 23  | 34                              | 0 | I  | 23  | 46  | 48  |
| 5                               | 0 | 0  | 12  | 19  | 14  | 35                              | 0 | I  | 26  | 14  | 39  |
| 6                               | 0 | 0  | 14  | 47  | 5   | 36                              | 0 | I  | 28  | 42  | 30  |
| 7                               | 0 | 0  | 17  | 14  | 56  | 37                              | 0 | I  | 31  | 10  | 21  |
| 8                               | 0 | 0  | 19  | 42  | 47  | 38                              | 0 | I  | 33  | 38  | 11  |
| 9                               | 0 | 0  | 22  | 10  | 37  | 39                              | 0 | I  | 36  | 6   | 2   |
| 10                              | 0 | 0  | 24  | 38  | 28  | 40                              | 0 | I  | 38  | 33  | 53  |
| 11                              | 0 | 0  | 27  | 6   | 19  | 41                              | 0 | I  | 41  | 1   | 44  |
| 12                              | 0 | 0  | 29  | 34  | 10  | 42                              | 0 | I  | 43  | 29  | 36  |
| 13                              | 0 | 0  | 32  | 2   | 1   | 43                              | 0 | I  | 45  | 57  | 26  |
| 14                              | 0 | 0  | 34  | 29  | 52  | 44                              | 0 | I  | 48  | 25  | 16  |
| 15                              | 0 | 0  | 36  | 57  | 42  | 45                              | 0 | I  | 50  | 53  | 7   |
| 16                              | 0 | 0  | 39  | 25  | 33  | 46                              | 0 | I  | 53  | 20  | 58  |
| 17                              | 0 | 0  | 41  | 53  | 24  | 47                              | 0 | I  | 55  | 48  | 49  |
| 18                              | 0 | 0  | 44  | 21  | 15  | 48                              | 0 | I  | 58  | 16  | 40  |
| 19                              | 0 | 0  | 46  | 49  | 6   | 49                              | 0 | 2  | 0   | 44  | 30  |
| 20                              | 0 | 0  | 49  | 16  | 57  | 50                              | 0 | 2  | 3   | 12  | 21  |
| 21                              | 0 | 0  | 51  | 44  | 47  | 51                              | 0 | 2  | 5   | 40  | 12  |
| 22                              | 0 | 0  | 54  | 12  | 38  | 52                              | 0 | 2  | 8   | 8   | 3   |
| 23                              | 0 | 0  | 56  | 40  | 29  | 53                              | 0 | 2  | 10  | 35  | 54  |
| 24                              | 0 | 0  | 59  | 8   | 10  | 54                              | 0 | 2  | 13  | 3   | 45  |
| 25                              | 0 | I  | 1   | 36  | 11  | 55                              | 0 | 2  | 15  | 31  | 35  |
| 26                              | 0 | I  | 4   | 4   | 1   | 56                              | 0 | 2  | 17  | 59  | 26  |
| 27                              | 0 | I  | 6   | 31  | 52  | 57                              | 0 | 2  | 20  | 27  | 17  |
| 28                              | 0 | I  | 8   | 59  | 43  | 58                              | 0 | 2  | 22  | 55  | 8   |
| 29                              | 0 | I  | 11  | 27  | 34  | 59                              | 0 | 2  | 25  | 22  | 59  |
| 30                              | 0 | I  | 13  | 55  | 25  | 60                              | 0 | 2  | 27  | 50  | 50  |



Tabula Aequationum Solis.

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lin.

o Solis ab  
noctio.

|    | III | III |
|----|-----|-----|
|    | V   |     |
| 6  | 23  | 16  |
| 8  | 51  | 6   |
| 11 | 18  | 57  |
| 13 | 46  | 48  |
| 16 | 14  | 39  |
| 18 | 42  | 30  |
| 11 | 10  | 21  |
| 13 | 38  | 11  |
| 16 | 6   | 2   |
| 18 | 33  | 53  |
| 11 | 1   | 44  |
| 13 | 29  | 36  |
| 15 | 57  | 26  |
| 18 | 25  | 16  |
| 10 | 53  | 7   |
| 13 | 20  | 58  |
| 15 | 48  | 49  |
| 18 | 16  | 40  |
| 10 | 44  | 30  |
| 13 | 12  | 21  |
| 15 | 40  | 12  |
| 18 | 8   | 3   |
| 10 | 35  | 54  |
| 13 | 3   | 45  |
| 15 | 31  | 35  |
| 17 | 59  | 26  |
| 10 | 27  | 17  |
| 12 | 55  | 8   |
| 15 | 22  | 59  |
| 17 | 50  | 50  |

| Tabula Aequationum Solis. |    |    |    |   |    |    |    |    |    |   |    |    |    |    |    |   |    |    |    |
|---------------------------|----|----|----|---|----|----|----|----|----|---|----|----|----|----|----|---|----|----|----|
| Subtrahe                  |    |    |    |   |    |    |    |    |    |   |    |    |    |    |    |   |    |    |    |
| 0                         |    |    | 1  |   |    | 2  |    |    | 3  |   |    | 4  |    |    | 5  |   |    |    |    |
| P                         | I  | II | P  | I | II | P  | I  | II | P  | I | II | P  | I  | II | P  | I | II |    |    |
| 0                         | 0  | 0  | 1  | 0 | 40 | 1  | 45 | 46 | 2  | 3 | 10 | 1  | 47 | 40 | 1  | 2 | 33 | 30 |    |
| 10                        | 0  | 0  | 21 | 1 | 0  | 58 | 1  | 45 | 57 | 2 | 3  | 10 | 1  | 47 | 29 | 1 | 2  | 14 | 50 |
| 20                        | 0  | 0  | 43 | 1 | 1  | 17 | 1  | 46 | 7  | 2 | 3  | 11 | 1  | 47 | 19 | 1 | 1  | 55 | 40 |
| 30                        | 0  | 1  | 4  | 1 | 1  | 35 | 1  | 46 | 18 | 2 | 3  | 11 | 1  | 47 | 8  | 1 | 1  | 37 | 30 |
| 40                        | 0  | 1  | 25 | 1 | 1  | 53 | 1  | 46 | 29 | 2 | 3  | 11 | 1  | 46 | 57 | 1 | 1  | 18 | 20 |
| 50                        | 0  | 1  | 47 | 1 | 2  | 12 | 1  | 46 | 39 | 2 | 3  | 12 | 1  | 46 | 46 | 1 | 0  | 59 | 10 |
| 1                         | 0  | 2  | 8  | 1 | 2  | 30 | 1  | 46 | 50 | 2 | 3  | 12 | 1  | 46 | 35 | 1 | 0  | 40 | 29 |
| 10                        | 0  | 2  | 29 | 1 | 2  | 48 | 1  | 47 | 0  | 2 | 3  | 12 | 1  | 46 | 24 | 1 | 0  | 21 | 50 |
| 20                        | 0  | 2  | 50 | 1 | 3  | 6  | 1  | 47 | 11 | 2 | 3  | 12 | 1  | 46 | 13 | 1 | 0  | 2  | 40 |
| 30                        | 0  | 3  | 12 | 1 | 3  | 25 | 1  | 47 | 21 | 2 | 3  | 12 | 1  | 46 | 2  | 0 | 59 | 43 | 30 |
| 40                        | 0  | 3  | 33 | 1 | 3  | 43 | 1  | 47 | 32 | 2 | 3  | 11 | 1  | 45 | 51 | 0 | 59 | 24 | 20 |
| 50                        | 0  | 3  | 54 | 1 | 4  | 1  | 1  | 47 | 42 | 2 | 3  | 11 | 1  | 45 | 39 | 0 | 59 | 5  | 10 |
| 1                         | 0  | 4  | 15 | 1 | 4  | 19 | 1  | 47 | 53 | 2 | 3  | 11 | 1  | 45 | 28 | 0 | 58 | 46 | 28 |
| 10                        | 0  | 4  | 36 | 1 | 4  | 37 | 1  | 48 | 3  | 2 | 3  | 11 | 1  | 45 | 17 | 0 | 58 | 27 | 50 |
| 20                        | 0  | 4  | 57 | 1 | 4  | 55 | 1  | 48 | 13 | 2 | 3  | 10 | 1  | 45 | 5  | 0 | 58 | 8  | 40 |
| 30                        | 0  | 5  | 19 | 1 | 5  | 13 | 1  | 48 | 24 | 2 | 3  | 10 | 1  | 44 | 54 | 0 | 57 | 48 | 30 |
| 40                        | 0  | 5  | 40 | 1 | 5  | 31 | 1  | 48 | 34 | 2 | 3  | 9  | 1  | 44 | 42 | 0 | 57 | 29 | 20 |
| 50                        | 0  | 6  | 1  | 1 | 5  | 49 | 1  | 48 | 44 | 2 | 3  | 9  | 1  | 44 | 31 | 0 | 57 | 10 | 10 |
| 1                         | 0  | 6  | 22 | 1 | 6  | 7  | 1  | 48 | 54 | 2 | 3  | 8  | 1  | 44 | 19 | 0 | 56 | 50 | 27 |
| 10                        | 0  | 6  | 43 | 1 | 6  | 25 | 1  | 49 | 4  | 2 | 3  | 7  | 1  | 44 | 7  | 0 | 56 | 31 | 50 |
| 20                        | 0  | 7  | 4  | 1 | 6  | 43 | 1  | 49 | 14 | 2 | 3  | 6  | 1  | 43 | 56 | 0 | 56 | 11 | 40 |
| 30                        | 0  | 7  | 26 | 1 | 7  | 0  | 1  | 49 | 24 | 2 | 3  | 5  | 1  | 43 | 44 | 0 | 55 | 52 | 30 |
| 40                        | 0  | 7  | 47 | 1 | 7  | 18 | 1  | 49 | 33 | 2 | 3  | 4  | 1  | 43 | 32 | 0 | 55 | 32 | 20 |
| 50                        | 0  | 8  | 8  | 1 | 7  | 36 | 1  | 49 | 43 | 2 | 3  | 3  | 1  | 43 | 21 | 0 | 55 | 13 | 10 |
| 1                         | 0  | 8  | 29 | 1 | 7  | 54 | 1  | 49 | 53 | 2 | 3  | 2  | 1  | 43 | 9  | 0 | 54 | 53 | 26 |
| 10                        | 0  | 8  | 50 | 1 | 8  | 12 | 1  | 50 | 3  | 2 | 3  | 1  | 1  | 42 | 57 | 0 | 54 | 33 | 50 |
| 20                        | 0  | 9  | 11 | 1 | 8  | 29 | 1  | 50 | 12 | 2 | 2  | 59 | 1  | 42 | 45 | 0 | 54 | 14 | 40 |
| 30                        | 0  | 9  | 32 | 1 | 8  | 47 | 1  | 50 | 22 | 2 | 2  | 58 | 1  | 42 | 33 | 0 | 53 | 54 | 30 |
| 40                        | 0  | 9  | 53 | 1 | 9  | 4  | 1  | 50 | 31 | 2 | 2  | 57 | 1  | 42 | 21 | 0 | 53 | 35 | 20 |
| 50                        | 0  | 10 | 14 | 1 | 9  | 22 | 1  | 50 | 41 | 2 | 2  | 55 | 1  | 42 | 9  | 0 | 53 | 15 | 10 |
| 1                         | 0  | 10 | 35 | 1 | 9  | 39 | 1  | 50 | 50 | 2 | 2  | 54 | 1  | 41 | 57 | 0 | 52 | 55 | 25 |
| 10                        | 0  | 10 | 56 | 1 | 9  | 57 | 1  | 51 | 0  | 2 | 2  | 52 | 1  | 41 | 45 | 0 | 52 | 35 | 50 |
| 20                        | 0  | 11 | 17 | 1 | 10 | 14 | 1  | 51 | 9  | 2 | 2  | 51 | 1  | 41 | 32 | 0 | 52 | 15 | 40 |
| 30                        | 0  | 11 | 38 | 1 | 10 | 32 | 1  | 51 | 18 | 2 | 2  | 49 | 1  | 41 | 20 | 0 | 51 | 55 | 30 |
| 40                        | 0  | 11 | 59 | 1 | 10 | 49 | 1  | 51 | 27 | 2 | 2  | 47 | 1  | 41 | 8  | 0 | 51 | 36 | 20 |
| 50                        | 0  | 12 | 20 | 1 | 11 | 6  | 1  | 51 | 36 | 2 | 2  | 46 | 1  | 40 | 55 | 0 | 51 | 16 | 10 |
| 1                         | 0  | 12 | 41 | 1 | 11 | 23 | 1  | 51 | 45 | 2 | 2  | 44 | 1  | 40 | 43 | 0 | 50 | 56 | 24 |
| 11                        | 10 | 9  | 8  | 7 | 6  |    |    |    |    |   |    |    |    |    |    |   |    |    |    |
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| Subtrahe |   |    |    |    |    |    |  |   |    |    |  |   |   |    |  |   |    |    |  |   |    |    |    |
|----------|---|----|----|----|----|----|--|---|----|----|--|---|---|----|--|---|----|----|--|---|----|----|----|
| 0        |   |    |    | 1  |    |    |  | 2 |    |    |  | 3 |   |    |  | 4 |    |    |  | 5 |    |    |    |
| P        | i | u  |    | P  | i  | u  |  | P | i  | u  |  | P | i | u  |  | P | i  | u  |  | P | i  | u  |    |
| 6        | 0 | 12 | 41 | 1  | 11 | 23 |  | 1 | 51 | 45 |  | 2 | 2 | 44 |  | 1 | 40 | 43 |  | 0 | 50 | 56 | 24 |
| 10       | 0 | 13 | 2  | 1  | 11 | 40 |  | 1 | 51 | 54 |  | 2 | 2 | 42 |  | 1 | 40 | 30 |  | 0 | 50 | 36 | 50 |
| 20       | 0 | 13 | 23 | 1  | 11 | 57 |  | 1 | 52 | 3  |  | 2 | 2 | 40 |  | 1 | 40 | 18 |  | 0 | 50 | 16 | 40 |
| 30       | 0 | 13 | 44 | 1  | 12 | 15 |  | 1 | 52 | 12 |  | 2 | 2 | 38 |  | 1 | 40 | 5  |  | 0 | 49 | 56 | 30 |
| 40       | 0 | 14 | 5  | 1  | 12 | 32 |  | 1 | 52 | 20 |  | 2 | 2 | 35 |  | 1 | 39 | 52 |  | 0 | 49 | 36 | 20 |
| 50       | 0 | 14 | 26 | 1  | 12 | 49 |  | 1 | 52 | 29 |  | 2 | 2 | 33 |  | 1 | 39 | 40 |  | 0 | 49 | 16 | 10 |
| 7        | 0 | 14 | 47 | 1  | 13 | 6  |  | 1 | 52 | 38 |  | 2 | 2 | 31 |  | 1 | 39 | 27 |  | 0 | 48 | 56 | 23 |
| 10       | 0 | 15 | 8  | 1  | 13 | 23 |  | 1 | 52 | 47 |  | 2 | 2 | 28 |  | 1 | 39 | 14 |  | 0 | 48 | 36 | 50 |
| 20       | 0 | 15 | 29 | 1  | 13 | 40 |  | 1 | 52 | 55 |  | 2 | 2 | 26 |  | 1 | 39 | 1  |  | 0 | 48 | 16 | 40 |
| 30       | 0 | 15 | 50 | 1  | 13 | 57 |  | 1 | 53 | 4  |  | 2 | 2 | 23 |  | 1 | 38 | 48 |  | 0 | 47 | 55 | 30 |
| 40       | 0 | 16 | 11 | 1  | 14 | 14 |  | 1 | 53 | 12 |  | 2 | 2 | 21 |  | 1 | 38 | 36 |  | 0 | 47 | 35 | 20 |
| 50       | 0 | 16 | 32 | 1  | 14 | 31 |  | 1 | 53 | 21 |  | 2 | 2 | 18 |  | 1 | 38 | 23 |  | 0 | 47 | 15 | 10 |
| 8        | 0 | 16 | 53 | 1  | 14 | 48 |  | 1 | 53 | 29 |  | 2 | 2 | 16 |  | 1 | 38 | 10 |  | 0 | 46 | 55 | 22 |
| 10       | 0 | 17 | 14 | 1  | 15 | 5  |  | 1 | 53 | 37 |  | 2 | 2 | 13 |  | 1 | 37 | 57 |  | 0 | 46 | 35 | 50 |
| 20       | 0 | 17 | 34 | 1  | 15 | 21 |  | 1 | 53 | 45 |  | 2 | 2 | 11 |  | 1 | 37 | 44 |  | 0 | 46 | 15 | 40 |
| 30       | 0 | 17 | 55 | 1  | 15 | 38 |  | 1 | 53 | 54 |  | 2 | 2 | 8  |  | 1 | 37 | 31 |  | 0 | 45 | 54 | 30 |
| 40       | 0 | 18 | 16 | 1  | 15 | 55 |  | 1 | 54 | 2  |  | 2 | 2 | 5  |  | 1 | 37 | 18 |  | 0 | 45 | 34 | 20 |
| 50       | 0 | 18 | 37 | 1  | 16 | 11 |  | 1 | 54 | 10 |  | 2 | 2 | 2  |  | 1 | 37 | 4  |  | 0 | 45 | 14 | 10 |
| 9        | 0 | 18 | 58 | 1  | 16 | 28 |  | 1 | 54 | 18 |  | 2 | 1 | 59 |  | 1 | 36 | 51 |  | 0 | 44 | 54 | 21 |
| 10       | 0 | 19 | 19 | 1  | 16 | 44 |  | 1 | 54 | 26 |  | 2 | 1 | 56 |  | 1 | 36 | 38 |  | 0 | 44 | 34 | 50 |
| 20       | 0 | 19 | 39 | 1  | 17 | 1  |  | 1 | 54 | 34 |  | 2 | 1 | 53 |  | 1 | 36 | 24 |  | 0 | 44 | 13 | 40 |
| 30       | 0 | 20 | 0  | 1  | 17 | 17 |  | 1 | 54 | 42 |  | 2 | 1 | 50 |  | 1 | 36 | 11 |  | 0 | 43 | 53 | 30 |
| 40       | 0 | 20 | 21 | 1  | 17 | 34 |  | 1 | 54 | 50 |  | 2 | 1 | 46 |  | 1 | 35 | 57 |  | 0 | 43 | 32 | 20 |
| 50       | 0 | 20 | 42 | 1  | 17 | 50 |  | 1 | 54 | 57 |  | 2 | 1 | 43 |  | 1 | 35 | 44 |  | 0 | 43 | 12 | 10 |
| 10       | 0 | 21 | 3  | 1  | 18 | 7  |  | 1 | 55 | 5  |  | 2 | 1 | 40 |  | 1 | 35 | 30 |  | 0 | 42 | 52 | 20 |
| 10       | 0 | 21 | 23 | 1  | 18 | 23 |  | 1 | 55 | 12 |  | 2 | 1 | 36 |  | 1 | 35 | 16 |  | 0 | 42 | 31 | 50 |
| 20       | 0 | 21 | 44 | 1  | 18 | 39 |  | 1 | 55 | 20 |  | 2 | 1 | 33 |  | 1 | 35 | 2  |  | 0 | 42 | 11 | 40 |
| 30       | 0 | 22 | 5  | 1  | 18 | 56 |  | 1 | 55 | 27 |  | 2 | 1 | 29 |  | 1 | 34 | 49 |  | 0 | 41 | 50 | 30 |
| 40       | 0 | 22 | 25 | 1  | 19 | 12 |  | 1 | 55 | 35 |  | 2 | 1 | 26 |  | 1 | 34 | 35 |  | 0 | 41 | 30 | 20 |
| 50       | 0 | 22 | 46 | 1  | 19 | 28 |  | 1 | 55 | 42 |  | 2 | 1 | 22 |  | 1 | 34 | 21 |  | 0 | 41 | 9  | 10 |
| 11       | 0 | 23 | 7  | 1  | 19 | 45 |  | 1 | 55 | 50 |  | 2 | 1 | 19 |  | 1 | 34 | 7  |  | 0 | 40 | 49 | 19 |
| 10       | 0 | 23 | 28 | 1  | 20 | 1  |  | 1 | 55 | 57 |  | 2 | 1 | 15 |  | 1 | 33 | 53 |  | 0 | 40 | 28 | 50 |
| 20       | 0 | 23 | 48 | 1  | 20 | 17 |  | 1 | 56 | 4  |  | 2 | 1 | 12 |  | 1 | 33 | 39 |  | 0 | 40 | 8  | 40 |
| 30       | 0 | 24 | 9  | 1  | 20 | 33 |  | 1 | 56 | 12 |  | 2 | 1 | 8  |  | 1 | 33 | 25 |  | 0 | 39 | 47 | 30 |
| 40       | 0 | 24 | 30 | 1  | 20 | 49 |  | 1 | 56 | 19 |  | 2 | 1 | 4  |  | 1 | 33 | 11 |  | 0 | 39 | 26 | 20 |
| 50       | 0 | 24 | 51 | 1  | 21 | 5  |  | 1 | 56 | 26 |  | 2 | 1 | 0  |  | 1 | 32 | 56 |  | 0 | 39 | 6  | 10 |
| 12       | 0 | 25 | 11 | 1  | 21 | 21 |  | 1 | 56 | 33 |  | 2 | 0 | 56 |  | 1 | 32 | 42 |  | 0 | 38 | 45 | 18 |
| 11       |   |    |    | 10 |    |    |  | 9 |    |    |  | 8 |   |    |  | 7 |    |    |  | 6 |    |    |    |
| Adde     |   |    |    |    |    |    |  |   |    |    |  |   |   |    |  |   |    |    |  |   |    |    |    |



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|-----|----|
| 5   |    |
| "   |    |
| 56  | 24 |
| 36  | 50 |
| 16  | 40 |
| 56  | 30 |
| 36  | 20 |
| 16  | 10 |
| 56  | 23 |
| 36  | 50 |
| 16  | 40 |
| 55  | 30 |
| 35  | 20 |
| 15  | 10 |
| 55  | 22 |
| 35  | 50 |
| 15  | 40 |
| 54  | 30 |
| 34  | 20 |
| 14  | 10 |
| 44  | 21 |
| 43  | 50 |
| 41  | 40 |
| 33  | 30 |
| 32  | 20 |
| 12  | 10 |
| 25  | 20 |
| 23  | 50 |
| 21  | 40 |
| 15  | 30 |
| 13  | 20 |
| 9   | 10 |
| 049 | 19 |
| 028 | 50 |
| 08  | 40 |
| 947 | 30 |
| 926 | 20 |
| 96  | 10 |
| 845 | 18 |
| 6   |    |

| Subtrahe |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |    |  |
|----------|---|----|----|---|----|----|---|----|----|---|----|----|---|----|----|---|----|----|----|--|
|          | 0 |    |    | 1 |    |    | 2 |    |    | 3 |    |    | 4 |    |    | 5 |    |    |    |  |
|          | P | I  | u  | P | I  | u  | P | I  | u  | P | I  | u  | P | I  | u  | P | I  | u  |    |  |
| 12       | 0 | 25 | 14 | 1 | 21 | 21 | 1 | 56 | 33 | 2 | 0  | 56 | 1 | 32 | 42 | 0 | 38 | 45 | 18 |  |
| 10       | 0 | 25 | 31 | 1 | 21 | 37 | 1 | 56 | 40 | 2 | 0  | 52 | 1 | 32 | 28 | 0 | 38 | 24 | 50 |  |
| 20       | 0 | 25 | 52 | 1 | 21 | 53 | 1 | 56 | 47 | 2 | 0  | 47 | 1 | 32 | 13 | 0 | 38 | 3  | 40 |  |
| 30       | 0 | 26 | 12 | 1 | 22 | 9  | 1 | 56 | 54 | 2 | 0  | 43 | 1 | 31 | 59 | 0 | 37 | 42 | 30 |  |
| 40       | 0 | 26 | 33 | 1 | 22 | 24 | 1 | 57 | 0  | 2 | 0  | 39 | 1 | 31 | 44 | 0 | 37 | 21 | 20 |  |
| 50       | 0 | 26 | 53 | 1 | 22 | 40 | 1 | 57 | 7  | 2 | 0  | 34 | 1 | 31 | 30 | 0 | 37 | 1  | 10 |  |
| 13       | 0 | 27 | 14 | 1 | 22 | 56 | 1 | 57 | 14 | 2 | 0  | 30 | 1 | 31 | 15 | 0 | 36 | 40 | 17 |  |
| 10       | 0 | 27 | 34 | 1 | 23 | 12 | 1 | 57 | 20 | 2 | 0  | 25 | 1 | 31 | 0  | 0 | 36 | 19 | 50 |  |
| 20       | 0 | 27 | 55 | 1 | 23 | 27 | 1 | 57 | 27 | 2 | 0  | 21 | 1 | 30 | 46 | 0 | 35 | 58 | 40 |  |
| 30       | 0 | 28 | 15 | 1 | 23 | 43 | 1 | 57 | 33 | 2 | 0  | 16 | 1 | 30 | 31 | 0 | 35 | 37 | 30 |  |
| 40       | 0 | 28 | 36 | 1 | 23 | 59 | 1 | 57 | 39 | 2 | 0  | 11 | 1 | 30 | 16 | 0 | 35 | 16 | 20 |  |
| 50       | 0 | 28 | 56 | 1 | 24 | 14 | 1 | 57 | 46 | 2 | 0  | 7  | 1 | 30 | 1  | 0 | 34 | 55 | 10 |  |
| 14       | 0 | 29 | 17 | 1 | 24 | 30 | 1 | 57 | 52 | 2 | 0  | 2  | 1 | 29 | 46 | 0 | 34 | 34 | 16 |  |
| 10       | 0 | 29 | 37 | 1 | 24 | 45 | 1 | 57 | 58 | 1 | 59 | 57 | 1 | 29 | 31 | 0 | 34 | 13 | 50 |  |
| 20       | 0 | 29 | 58 | 1 | 25 | 1  | 1 | 58 | 4  | 1 | 59 | 52 | 1 | 29 | 15 | 0 | 33 | 52 | 40 |  |
| 30       | 0 | 30 | 18 | 1 | 25 | 16 | 1 | 58 | 10 | 1 | 59 | 47 | 1 | 29 | 0  | 0 | 33 | 31 | 30 |  |
| 40       | 0 | 30 | 39 | 1 | 25 | 32 | 1 | 58 | 16 | 1 | 59 | 42 | 1 | 28 | 45 | 0 | 33 | 10 | 20 |  |
| 50       | 0 | 30 | 59 | 1 | 25 | 47 | 1 | 58 | 22 | 1 | 59 | 37 | 1 | 28 | 29 | 0 | 32 | 49 | 10 |  |
| 15       | 0 | 31 | 20 | 1 | 26 | 2  | 1 | 58 | 28 | 1 | 59 | 32 | 1 | 28 | 14 | 0 | 32 | 28 | 15 |  |
| 10       | 0 | 31 | 40 | 1 | 26 | 17 | 1 | 58 | 34 | 1 | 59 | 27 | 1 | 27 | 58 | 0 | 32 | 7  | 50 |  |
| 20       | 0 | 32 | 1  | 1 | 26 | 32 | 1 | 58 | 39 | 1 | 59 | 22 | 1 | 27 | 43 | 0 | 31 | 46 | 40 |  |
| 30       | 0 | 32 | 21 | 1 | 26 | 48 | 1 | 58 | 45 | 1 | 59 | 16 | 1 | 27 | 27 | 0 | 31 | 25 | 30 |  |
| 40       | 0 | 32 | 41 | 1 | 27 | 3  | 1 | 58 | 50 | 1 | 59 | 11 | 1 | 27 | 11 | 0 | 31 | 4  | 20 |  |
| 50       | 0 | 33 | 2  | 1 | 27 | 18 | 1 | 58 | 56 | 1 | 59 | 5  | 1 | 26 | 56 | 0 | 30 | 42 | 10 |  |
| 16       | 0 | 33 | 22 | 1 | 27 | 33 | 1 | 59 | 2  | 1 | 59 | 0  | 1 | 26 | 40 | 0 | 30 | 21 | 14 |  |
| 10       | 0 | 33 | 42 | 1 | 27 | 48 | 1 | 59 | 7  | 1 | 58 | 55 | 1 | 26 | 24 | 0 | 30 | 0  | 50 |  |
| 20       | 0 | 34 | 3  | 1 | 28 | 3  | 1 | 59 | 13 | 1 | 58 | 49 | 1 | 26 | 9  | 0 | 29 | 38 | 40 |  |
| 30       | 0 | 34 | 23 | 1 | 28 | 18 | 1 | 59 | 18 | 1 | 58 | 44 | 1 | 25 | 53 | 0 | 29 | 17 | 30 |  |
| 40       | 0 | 34 | 43 | 1 | 28 | 33 | 1 | 59 | 24 | 1 | 58 | 38 | 1 | 25 | 37 | 0 | 28 | 56 | 20 |  |
| 50       | 0 | 35 | 4  | 1 | 28 | 47 | 1 | 59 | 29 | 1 | 58 | 32 | 1 | 25 | 21 | 0 | 28 | 34 | 10 |  |
| 17       | 0 | 35 | 24 | 1 | 29 | 2  | 1 | 59 | 34 | 1 | 58 | 26 | 1 | 25 | 5  | 0 | 28 | 13 | 13 |  |
| 10       | 0 | 35 | 44 | 1 | 29 | 17 | 1 | 59 | 39 | 1 | 58 | 20 | 1 | 24 | 49 | 0 | 27 | 52 | 50 |  |
| 20       | 0 | 36 | 4  | 1 | 29 | 31 | 1 | 59 | 44 | 1 | 58 | 14 | 1 | 24 | 33 | 0 | 27 | 30 | 40 |  |
| 30       | 0 | 36 | 25 | 1 | 29 | 46 | 1 | 59 | 49 | 1 | 58 | 8  | 1 | 24 | 17 | 0 | 27 | 9  | 30 |  |
| 40       | 0 | 36 | 45 | 1 | 30 | 1  | 1 | 59 | 54 | 1 | 58 | 2  | 1 | 24 | 1  | 0 | 26 | 48 | 20 |  |
| 50       | 0 | 37 | 5  | 1 | 30 | 15 | 1 | 59 | 59 | 1 | 57 | 55 | 1 | 23 | 45 | 0 | 26 | 26 | 10 |  |
| 18       | 0 | 37 | 25 | 1 | 30 | 30 | 2 | 0  | 4  | 1 | 57 | 49 | 1 | 23 | 29 | 0 | 26 | 5  | 12 |  |
| II       |   |    | IO |   |    | 9  |   |    | 8  |   |    | 7  |   |    | 6  |   |    |    |    |  |
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|    | Subtrahe |         |        |         |         |         |    |
|----|----------|---------|--------|---------|---------|---------|----|
|    | 0        | 1       | 2      | 3       | 4       | 5       |    |
|    | P        | I       | P      | I       | P       | I       | P  |
| 18 | 0 37 25  | 1 30 30 | 2 0 4  | 1 57 49 | 1 23 29 | 0 26 5  | 12 |
| 10 | 0 37 45  | 1 30 44 | 2 0 9  | 1 57 42 | 1 23 13 | 0 25 44 | 50 |
| 20 | 0 38 5   | 1 30 58 | 2 0 13 | 1 57 36 | 1 22 57 | 0 25 22 | 40 |
| 30 | 0 38 25  | 1 31 13 | 2 0 18 | 1 57 29 | 1 22 41 | 0 25 1  | 30 |
| 40 | 0 38 45  | 1 31 27 | 2 0 23 | 1 57 23 | 1 22 24 | 0 24 39 | 20 |
| 50 | 0 39 5   | 1 31 42 | 2 0 27 | 1 57 16 | 1 21 8  | 0 24 18 | 10 |
| 19 | 0 39 25  | 1 31 56 | 2 0 32 | 1 57 10 | 1 21 52 | 0 23 56 | 11 |
| 10 | 0 39 45  | 1 32 10 | 2 0 36 | 1 57 3  | 1 21 35 | 0 23 35 | 50 |
| 20 | 0 40 5   | 1 32 24 | 2 0 41 | 1 56 57 | 1 21 19 | 0 23 13 | 40 |
| 30 | 0 40 25  | 1 32 39 | 2 0 45 | 1 56 50 | 1 20 3  | 0 22 52 | 30 |
| 40 | 0 40 45  | 1 32 53 | 2 0 49 | 1 56 43 | 1 20 46 | 0 22 30 | 20 |
| 50 | 0 41 5   | 1 33 7  | 2 0 54 | 1 56 36 | 1 20 30 | 0 22 9  | 10 |
| 20 | 0 41 25  | 1 33 21 | 2 0 58 | 1 56 29 | 1 20 13 | 0 21 47 | 10 |
| 10 | 0 41 45  | 1 33 35 | 2 1 2  | 1 56 22 | 1 19 56 | 0 21 26 | 50 |
| 20 | 0 42 5   | 1 33 49 | 2 1 6  | 1 56 15 | 1 19 40 | 0 21 4  | 40 |
| 30 | 0 42 25  | 1 34 3  | 2 1 10 | 1 56 8  | 1 19 23 | 0 20 43 | 30 |
| 40 | 0 42 44  | 1 34 17 | 2 1 14 | 1 56 0  | 1 19 6  | 0 20 21 | 20 |
| 50 | 0 43 4   | 1 34 30 | 2 1 18 | 1 55 53 | 1 18 50 | 0 20 0  | 10 |
| 21 | 0 43 24  | 1 34 44 | 2 1 21 | 1 55 46 | 1 18 33 | 0 19 38 | 9  |
| 10 | 0 43 44  | 1 34 57 | 2 1 25 | 1 55 38 | 1 18 16 | 0 19 16 | 50 |
| 20 | 0 44 4   | 1 35 11 | 2 1 28 | 1 55 31 | 1 18 0  | 0 18 55 | 40 |
| 30 | 0 44 23  | 1 35 24 | 2 1 32 | 1 55 23 | 1 17 43 | 0 18 33 | 30 |
| 40 | 0 44 43  | 1 35 38 | 2 1 35 | 1 55 15 | 1 17 26 | 0 18 11 | 20 |
| 50 | 0 45 2   | 1 35 51 | 2 1 39 | 1 55 8  | 1 17 9  | 0 17 50 | 10 |
| 22 | 0 45 22  | 1 36 5  | 2 1 42 | 1 55 0  | 1 16 52 | 0 17 28 | 8  |
| 10 | 0 45 42  | 1 36 18 | 2 1 45 | 1 54 52 | 1 16 35 | 0 17 6  | 50 |
| 20 | 0 46 1   | 1 36 31 | 2 1 48 | 1 54 44 | 1 16 18 | 0 16 45 | 40 |
| 30 | 0 46 21  | 1 36 45 | 2 1 51 | 1 54 36 | 1 16 1  | 0 16 23 | 30 |
| 40 | 0 46 40  | 1 36 58 | 2 1 54 | 1 54 28 | 1 15 44 | 0 16 1  | 20 |
| 50 | 0 47 0   | 1 37 11 | 2 1 57 | 1 54 20 | 1 15 26 | 0 15 40 | 10 |
| 23 | 0 47 19  | 1 37 24 | 2 2 0  | 1 54 12 | 1 15 9  | 0 15 18 | 7  |
| 10 | 0 47 39  | 1 37 37 | 2 2 3  | 1 54 4  | 1 14 52 | 0 14 56 | 50 |
| 20 | 0 47 58  | 1 37 50 | 2 2 5  | 1 53 55 | 1 14 34 | 0 14 35 | 40 |
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| 50 | 0 48 57  | 1 38 28 | 2 2 13 | 1 53 30 | 1 13 42 | 0 13 30 | 10 |
| 24 | 0 49 16  | 1 38 41 | 2 2 16 | 1 53 22 | 1 13 25 | 0 13 8  | 6  |
|    | 11       | 10      | 9      | 8       | 7       | 6       |    |

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| 5  | 12 |
| 44 | 50 |
| 22 | 40 |
| 1  | 30 |
| 39 | 20 |
| 18 | 10 |
| 56 | 11 |
| 35 | 50 |
| 13 | 40 |
| 52 | 30 |
| 30 | 20 |
| 9  | 10 |
| 47 | 10 |
| 26 | 50 |
| 4  | 40 |
| 43 | 30 |
| 21 | 20 |
| 0  | 10 |
| 38 | 9  |
| 16 | 50 |
| 55 | 40 |
| 33 | 30 |
| 11 | 20 |
| 50 | 10 |
| 28 | 8  |
| 6  | 50 |
| 45 | 40 |
| 23 | 30 |
| 1  | 20 |
| 40 | 10 |
| 18 | 7  |
| 56 | 50 |
| 35 | 40 |
| 13 | 30 |
| 51 | 20 |
| 30 | 10 |
| 8  | 6  |

| Subtrahe |    |    |    |   |    |    |   |   |    |   |    |    |   |    |    |   |    |    |
|----------|----|----|----|---|----|----|---|---|----|---|----|----|---|----|----|---|----|----|
| 0        |    |    | 1  |   |    | 2  |   |   | 3  |   |    | 4  |   |    | 5  |   |    |    |
| P        | r  | u  | P  | r | u  | P  | r | u | P  | r | u  | P  | r | u  | P  | r | u  |    |
| 24       | 0  | 49 | 16 | 1 | 38 | 41 | 2 | 2 | 16 | 1 | 53 | 22 | 1 | 13 | 25 | 0 | 13 | 8  |
| 10       | 0  | 49 | 36 | 1 | 38 | 53 | 2 | 2 | 18 | 1 | 53 | 13 | 1 | 13 | 8  | 0 | 12 | 46 |
| 20       | 0  | 49 | 55 | 1 | 39 | 6  | 2 | 2 | 21 | 1 | 53 | 5  | 1 | 12 | 50 | 0 | 12 | 24 |
| 30       | 0  | 50 | 14 | 1 | 39 | 18 | 2 | 2 | 23 | 1 | 52 | 56 | 1 | 12 | 33 | 0 | 12 | 2  |
| 40       | 0  | 50 | 34 | 1 | 39 | 31 | 2 | 2 | 25 | 1 | 52 | 47 | 1 | 12 | 15 | 0 | 11 | 41 |
| 50       | 0  | 50 | 53 | 1 | 39 | 43 | 2 | 2 | 28 | 1 | 52 | 39 | 1 | 11 | 58 | 0 | 11 | 19 |
| 25       | 0  | 51 | 12 | 1 | 39 | 56 | 2 | 2 | 30 | 1 | 52 | 30 | 1 | 11 | 40 | 0 | 10 | 57 |
| 10       | 0  | 51 | 31 | 1 | 40 | 8  | 2 | 2 | 32 | 1 | 52 | 21 | 1 | 11 | 22 | 0 | 10 | 35 |
| 20       | 0  | 51 | 51 | 1 | 40 | 20 | 2 | 2 | 34 | 1 | 52 | 12 | 1 | 11 | 4  | 0 | 10 | 13 |
| 30       | 0  | 52 | 10 | 1 | 40 | 33 | 2 | 2 | 36 | 1 | 52 | 3  | 1 | 10 | 47 | 0 | 9  | 51 |
| 40       | 0  | 52 | 29 | 1 | 40 | 45 | 2 | 2 | 38 | 1 | 51 | 54 | 1 | 10 | 29 | 0 | 9  | 30 |
| 50       | 0  | 52 | 48 | 1 | 40 | 57 | 2 | 2 | 40 | 1 | 51 | 45 | 1 | 10 | 11 | 0 | 9  | 8  |
| 26       | 0  | 53 | 7  | 1 | 41 | 10 | 2 | 2 | 42 | 1 | 51 | 36 | 1 | 9  | 53 | 0 | 8  | 46 |
| 10       | 0  | 53 | 26 | 1 | 41 | 22 | 2 | 2 | 44 | 1 | 51 | 27 | 1 | 9  | 35 | 0 | 8  | 24 |
| 20       | 0  | 53 | 45 | 1 | 41 | 34 | 2 | 2 | 45 | 1 | 51 | 17 | 1 | 9  | 17 | 0 | 8  | 2  |
| 30       | 0  | 54 | 4  | 1 | 41 | 46 | 2 | 2 | 47 | 1 | 51 | 8  | 1 | 8  | 59 | 0 | 7  | 41 |
| 40       | 0  | 54 | 23 | 1 | 41 | 58 | 2 | 2 | 49 | 1 | 50 | 59 | 1 | 8  | 41 | 0 | 7  | 19 |
| 50       | 0  | 54 | 42 | 1 | 42 | 10 | 2 | 2 | 50 | 1 | 50 | 49 | 1 | 8  | 23 | 0 | 6  | 57 |
| 27       | 0  | 55 | 1  | 1 | 42 | 22 | 2 | 2 | 52 | 1 | 50 | 40 | 1 | 8  | 5  | 0 | 6  | 35 |
| 10       | 0  | 55 | 20 | 1 | 42 | 34 | 2 | 2 | 53 | 1 | 50 | 30 | 1 | 7  | 47 | 0 | 6  | 13 |
| 20       | 0  | 55 | 39 | 1 | 42 | 45 | 2 | 2 | 55 | 1 | 50 | 20 | 1 | 7  | 29 | 0 | 5  | 51 |
| 30       | 0  | 55 | 58 | 1 | 42 | 57 | 2 | 2 | 56 | 1 | 50 | 11 | 1 | 7  | 11 | 0 | 5  | 29 |
| 40       | 0  | 56 | 17 | 1 | 43 | 9  | 2 | 2 | 57 | 1 | 50 | 1  | 1 | 6  | 52 | 0 | 5  | 8  |
| 50       | 0  | 56 | 36 | 1 | 43 | 20 | 2 | 2 | 59 | 1 | 49 | 52 | 1 | 6  | 34 | 0 | 4  | 46 |
| 28       | 0  | 56 | 55 | 1 | 43 | 32 | 2 | 3 | 0  | 1 | 49 | 42 | 1 | 6  | 16 | 0 | 4  | 24 |
| 10       | 0  | 57 | 14 | 1 | 43 | 43 | 2 | 3 | 1  | 1 | 49 | 32 | 1 | 5  | 58 | 0 | 4  | 2  |
| 20       | 0  | 57 | 33 | 1 | 43 | 55 | 2 | 3 | 2  | 1 | 49 | 22 | 1 | 5  | 39 | 0 | 3  | 40 |
| 30       | 0  | 57 | 52 | 1 | 44 | 6  | 2 | 3 | 3  | 1 | 49 | 12 | 1 | 5  | 21 | 0 | 3  | 18 |
| 40       | 0  | 58 | 10 | 1 | 44 | 17 | 2 | 3 | 4  | 1 | 49 | 2  | 1 | 5  | 2  | 0 | 2  | 56 |
| 50       | 0  | 58 | 29 | 1 | 44 | 29 | 2 | 3 | 5  | 1 | 48 | 52 | 1 | 4  | 44 | 0 | 2  | 34 |
| 29       | 0  | 58 | 48 | 1 | 44 | 40 | 2 | 3 | 6  | 1 | 48 | 42 | 1 | 4  | 25 | 0 | 2  | 12 |
| 10       | 0  | 59 | 7  | 1 | 44 | 51 | 2 | 3 | 7  | 1 | 48 | 32 | 1 | 4  | 6  | 0 | 1  | 50 |
| 20       | 0  | 59 | 26 | 1 | 45 | 2  | 2 | 3 | 7  | 1 | 48 | 21 | 1 | 3  | 47 | 0 | 1  | 28 |
| 30       | 0  | 59 | 44 | 1 | 45 | 13 | 2 | 3 | 8  | 1 | 48 | 11 | 1 | 3  | 29 | 0 | 1  | 6  |
| 40       | 1  | 0  | 3  | 1 | 45 | 24 | 2 | 3 | 9  | 1 | 48 | 1  | 1 | 3  | 10 | 0 | 0  | 44 |
| 50       | 1  | 0  | 21 | 1 | 45 | 35 | 2 | 3 | 9  | 1 | 47 | 50 | 1 | 2  | 52 | 0 | 0  | 22 |
| 30       | 1  | 0  | 40 | 1 | 45 | 46 | 2 | 3 | 10 | 1 | 47 | 40 | 1 | 2  | 33 | 0 | 0  | 0  |
|          | 11 | 10 | 9  | 8 | 7  | 6  |   |   |    |   |    |    |   |    |    |   |    |    |
| Adde     |    |    |    |   |    |    |   |   |    |   |    |    |   |    |    |   |    |    |

| Gradas                          | Anomalia, seu Argumentum Solis. |        |        |        |       |       | Gradas |
|---------------------------------|---------------------------------|--------|--------|--------|-------|-------|--------|
|                                 | 0                               | 1      | 2      | 3      | 4     | 5     |        |
| 0                               | 101792                          | 101564 | 100933 | 100048 | 99141 | 98462 | 30     |
| 1                               | 101791                          | 101549 | 100906 | 100017 | 99113 | 98446 | 29     |
| 2                               | 101790                          | 101533 | 100879 | 99985  | 99086 | 98430 | 28     |
| 3                               | 101788                          | 101517 | 100852 | 99954  | 99059 | 98415 | 27     |
| 4                               | 101785                          | 101501 | 100825 | 99923  | 99032 | 98400 | 26     |
| 5                               | 101782                          | 101484 | 100797 | 99892  | 99006 | 98385 | 25     |
| 6                               | 101779                          | 101466 | 100769 | 99861  | 98980 | 98371 | 24     |
| 7                               | 101775                          | 101448 | 100745 | 99829  | 98954 | 98358 | 23     |
| 8                               | 101771                          | 101430 | 100713 | 99798  | 98928 | 98345 | 22     |
| 9                               | 101766                          | 101411 | 100684 | 99767  | 98903 | 98332 | 21     |
| 10                              | 101761                          | 101392 | 100655 | 99736  | 98878 | 98320 | 20     |
| 11                              | 101756                          | 101373 | 100626 | 99705  | 98853 | 98308 | 19     |
| 12                              | 101750                          | 101353 | 100597 | 99674  | 98829 | 98297 | 18     |
| 13                              | 101744                          | 101333 | 100568 | 99643  | 98805 | 98287 | 17     |
| 14                              | 101737                          | 101312 | 100538 | 99612  | 98782 | 98277 | 16     |
| 15                              | 101730                          | 101291 | 100508 | 99581  | 98759 | 98268 | 15     |
| 16                              | 101722                          | 101270 | 100478 | 99551  | 98736 | 98260 | 14     |
| 17                              | 101714                          | 101248 | 100448 | 99520  | 98714 | 98252 | 13     |
| 18                              | 101705                          | 101226 | 100418 | 99490  | 98692 | 98245 | 12     |
| 19                              | 101696                          | 101203 | 100387 | 99459  | 98670 | 98238 | 11     |
| 20                              | 101687                          | 101180 | 100357 | 99429  | 98649 | 98232 | 10     |
| 21                              | 101677                          | 101157 | 100326 | 99399  | 98628 | 98227 | 9      |
| 22                              | 101667                          | 101133 | 100296 | 99369  | 98608 | 98222 | 8      |
| 23                              | 101656                          | 101109 | 100265 | 99340  | 98588 | 98218 | 7      |
| 24                              | 101644                          | 101085 | 100234 | 99311  | 98569 | 98215 | 6      |
| 25                              | 101632                          | 101060 | 100203 | 99282  | 98550 | 98212 | 5      |
| 26                              | 101619                          | 101035 | 100172 | 99253  | 98532 | 98210 | 4      |
| 27                              | 101606                          | 101010 | 100141 | 99225  | 98514 | 98209 | 3      |
| 28                              | 101592                          | 100985 | 100110 | 99197  | 98496 | 98208 | 2      |
| 29                              | 101578                          | 100959 | 100079 | 99169  | 98479 | 98208 | 1      |
| 30                              | 101564                          | 100933 | 100048 | 99141  | 98462 | 98208 | 0      |
| Anom.                           | 11                              | 10     | 9      | 8      | 7     | 6     | Anom.  |
| Anomalia, seu Argumentum Solis. |                                 |        |        |        |       |       |        |



*Tabula Tychonica Parallaxium Solarium in circulo Verticali  
ad eius à terra remotionem triplicem.*

| Gradi | Parallaxis ☉<br>in remotione |      |      | Altudo |  | Parallaxis ☉<br>in remotione |      |      | Altudo |  | Parallaxis ☉<br>in remotione |      |      | Altudo |  | Parallaxis ☉<br>in remotione |      |      | Altudo |  |
|-------|------------------------------|------|------|--------|--|------------------------------|------|------|--------|--|------------------------------|------|------|--------|--|------------------------------|------|------|--------|--|
|       | Max.                         | Med. | Min. |        |  | Max.                         | Med. | Min. |        |  | Max.                         | Med. | Min. |        |  | Max.                         | Med. | Min. |        |  |
| 30    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 29    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 28    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 27    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 26    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 25    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 24    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 23    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 22    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 21    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 20    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 19    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 18    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 17    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 16    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 15    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 14    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 13    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 12    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 11    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 10    |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 9     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 8     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 7     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 6     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 5     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 4     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 3     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 2     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 1     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| 0     |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |
| Anom. |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |                              |      |      |        |  |



|      | Januarius | Februarius | Martius  | Aprilis  | Maius    | Iunius   |
|------|-----------|------------|----------|----------|----------|----------|
| Dies | ♄         | ♊          | ♈        | ♈        | ♊        | ♊        |
|      | P         | i          | h        | P        | i        | h        |
| 1    | 10 28 45  | 12 3 51    | 11 18 17 | 12 2 49  | 11 15 37 | 10 59 51 |
| 2    | 11 30 2   | 13 4 43    | 12 18 20 | 13 1 44  | 12 13 32 | 11 57 6  |
| 3    | 12 31 19  | 14 5 34    | 13 18 20 | 14 0 38  | 13 11 26 | 12 54 19 |
| 4    | 13 32 36  | 15 6 23    | 14 18 18 | 14 59 30 | 14 9 18  | 13 51 31 |
| 5    | 14 33 52  | 16 7 11    | 15 18 14 | 15 58 20 | 15 7 9   | 14 48 43 |
| 6    | 15 35 8   | 17 7 58    | 16 18 8  | 16 57 7  | 16 4 58  | 15 45 55 |
| 7    | 16 36 24  | 18 8 44    | 17 17 59 | 17 55 52 | 17 2 45  | 16 43 6  |
| 8    | 17 37 39  | 19 9 29    | 18 17 48 | 18 54 35 | 18 0 30  | 17 40 17 |
| 9    | 18 38 54  | 20 10 12   | 19 17 35 | 19 53 15 | 18 58 13 | 18 37 27 |
| 10   | 19 40 8   | 21 10 53   | 20 17 20 | 20 51 53 | 19 55 55 | 19 34 36 |
| 11   | 20 41 22  | 22 11 33   | 21 17 3  | 21 50 28 | 20 53 35 | 20 31 44 |
| 12   | 21 42 35  | 23 12 11   | 22 16 44 | 22 49 1  | 21 51 14 | 21 28 52 |
| 13   | 22 43 47  | 24 12 47   | 23 16 23 | 23 47 33 | 22 48 52 | 22 26 0  |
| 14   | 23 44 58  | 25 13 21   | 24 16 0  | 24 46 3  | 23 46 29 | 23 23 7  |
| 15   | 24 46 9   | 26 13 53   | 25 15 35 | 25 44 31 | 24 44 5  | 24 20 13 |
| 16   | 25 47 19  | 27 14 23   | 26 15 7  | 26 42 57 | 25 41 39 | 25 17 19 |
| 17   | 26 48 29  | 28 14 51   | 27 14 37 | 27 41 21 | 26 39 11 | 26 14 24 |
| 18   | 27 49 38  | 29 15 18   | 28 14 5  | 28 39 43 | 27 36 42 | 27 11 29 |
| 19   | 28 50 46  | 0 15 43    | 29 13 31 | 29 38 3  | 28 34 12 | 28 8 34  |
| 20   | 29 51 53  | 1 16 6     | 0 12 55  | 0 36 21  | 29 31 41 | 29 5 39  |
| 21   | 0 52 59   | 2 16 28    | 1 12 17  | 1 34 37  | 0 29 8   | 0 2 43   |
| 22   | 1 54 4    | 3 16 48    | 2 11 37  | 2 32 51  | 1 26 34  | 0 59 47  |
| 23   | 2 55 8    | 4 17 6     | 3 10 54  | 3 31 3   | 2 23 59  | 1 56 51  |
| 24   | 3 56 11   | 5 17 22    | 4 10 9   | 4 29 14  | 3 21 22  | 2 53 54  |
| 25   | 4 57 12   | 6 17 36    | 5 9 22   | 5 27 23  | 4 18 46  | 3 50 57  |
| 26   | 5 58 12   | 7 17 48    | 6 8 32   | 6 25 30  | 5 16 6   | 4 48 0   |
| 27   | 6 59 11   | 8 17 58    | 7 7 40   | 7 23 35  | 6 13 25  | 5 45 3   |
| 28   | 8 0 9     | 9 18 6     | 8 6 46   | 8 21 38  | 7 10 45  | 6 42 6   |
| 29   | 9 1 6     | 10 18 12   | 9 5 50   | 9 19 39  | 8 8 3    | 7 39 9   |
| 30   | 10 2 2    |            | 10 4 52  | 10 17 39 | 9 5 20   | 8 36 12  |
| 31   | 11 2 57   |            | 11 3 52  |          | 10 2 35  |          |



# Ac Tab. Secundorum Mobilium.

61 340

Bissextilis.

| Iunius |       |
|--------|-------|
| II     |       |
| 1      | 59 51 |
| 2      | 57 6  |
| 3      | 54 19 |
| 4      | 51 31 |
| 5      | 48 43 |
| 6      | 45 55 |
| 7      | 43 6  |
| 8      | 40 17 |
| 9      | 37 27 |
| 10     | 34 36 |
| 11     | 31 44 |
| 12     | 28 52 |
| 13     | 26 0  |
| 14     | 23 7  |
| 15     | 20 13 |
| 16     | 17 19 |
| 17     | 14 24 |
| 18     | 11 29 |
| 19     | 8 34  |
| 20     | 5 39  |
| 21     | 2 43  |
| 22     | 59 47 |
| 23     | 56 51 |
| 24     | 53 54 |
| 25     | 50 57 |
| 26     | 48 0  |
| 27     | 45 3  |
| 28     | 42 6  |
| 29     | 39 9  |
| 30     | 36 12 |

| Dies | Iulius |    |    | Augustus |    |    | September |    |    | October |    |    | November |    |    | December |    |    |
|------|--------|----|----|----------|----|----|-----------|----|----|---------|----|----|----------|----|----|----------|----|----|
|      | P      | I  | II | P        | I  | II | P         | I  | II | P       | I  | II | P        | I  | II | P        | I  | II |
| 1    | 9      | 33 | 15 | 9        | 6  | 9  | 8         | 57 | 26 | 8       | 19 | 39 | 9        | 14 | 15 | 9        | 36 | 49 |
| 2    | 10     | 30 | 18 | 10       | 3  | 34 | 9         | 55 | 40 | 9       | 18 | 57 | 10       | 14 | 37 | 10       | 37 | 54 |
| 3    | 11     | 27 | 22 | 11       | 1  | 1  | 10        | 53 | 56 | 10      | 18 | 37 | 11       | 15 | 1  | 11       | 39 | 0  |
| 4    | 12     | 24 | 26 | 11       | 58 | 29 | 11        | 52 | 14 | 11      | 17 | 39 | 12       | 15 | 26 | 12       | 40 | 7  |
| 5    | 13     | 21 | 31 | 12       | 55 | 58 | 12        | 50 | 34 | 12      | 17 | 3  | 13       | 15 | 53 | 13       | 41 | 15 |
| 6    | 14     | 18 | 36 | 13       | 53 | 28 | 13        | 48 | 57 | 13      | 16 | 30 | 14       | 16 | 22 | 14       | 42 | 24 |
| 7    | 15     | 15 | 42 | 14       | 50 | 59 | 14        | 47 | 21 | 14      | 15 | 58 | 15       | 16 | 53 | 15       | 43 | 34 |
| 8    | 16     | 12 | 48 | 15       | 48 | 32 | 15        | 45 | 47 | 15      | 15 | 28 | 16       | 17 | 25 | 16       | 44 | 44 |
| 9    | 17     | 9  | 54 | 16       | 46 | 6  | 16        | 44 | 15 | 16      | 15 | 1  | 17       | 17 | 59 | 17       | 45 | 55 |
| 10   | 18     | 7  | 1  | 17       | 43 | 41 | 17        | 42 | 46 | 17      | 14 | 36 | 18       | 18 | 35 | 18       | 47 | 7  |
| 11   | 19     | 4  | 8  | 18       | 41 | 18 | 18        | 41 | 19 | 18      | 14 | 13 | 19       | 19 | 13 | 19       | 48 | 20 |
| 12   | 20     | 1  | 15 | 19       | 38 | 56 | 19        | 39 | 54 | 19      | 13 | 52 | 20       | 19 | 53 | 20       | 49 | 33 |
| 13   | 20     | 58 | 23 | 20       | 36 | 36 | 20        | 38 | 31 | 20      | 13 | 33 | 21       | 20 | 35 | 21       | 50 | 47 |
| 14   | 21     | 55 | 31 | 21       | 34 | 17 | 21        | 37 | 9  | 21      | 13 | 16 | 22       | 21 | 18 | 22       | 52 | 2  |
| 15   | 22     | 52 | 40 | 22       | 32 | 0  | 22        | 35 | 49 | 22      | 13 | 2  | 23       | 22 | 3  | 23       | 53 | 17 |
| 16   | 23     | 49 | 49 | 23       | 29 | 45 | 23        | 34 | 32 | 23      | 12 | 50 | 24       | 22 | 49 | 24       | 54 | 32 |
| 17   | 24     | 46 | 59 | 24       | 27 | 31 | 24        | 33 | 18 | 24      | 12 | 40 | 25       | 23 | 36 | 25       | 55 | 48 |
| 18   | 25     | 44 | 10 | 25       | 25 | 19 | 25        | 32 | 6  | 25      | 12 | 32 | 26       | 24 | 25 | 26       | 57 | 4  |
| 19   | 26     | 41 | 22 | 26       | 23 | 8  | 26        | 30 | 57 | 26      | 12 | 26 | 27       | 25 | 15 | 27       | 58 | 20 |
| 20   | 27     | 38 | 35 | 27       | 20 | 59 | 27        | 29 | 50 | 27      | 12 | 23 | 28       | 26 | 6  | 28       | 59 | 37 |
| 21   | 28     | 35 | 48 | 28       | 18 | 52 | 28        | 28 | 44 | 28      | 12 | 22 | 29       | 26 | 58 | 0        | 0  | 53 |
| 22   | 29     | 33 | 2  | 29       | 16 | 46 | 29        | 27 | 40 | 29      | 12 | 23 | 0        | 27 | 52 | 1        | 2  | 10 |
| 23   | 0      | 30 | 16 | 0        | 14 | 42 | 0         | 26 | 38 | 0       | 12 | 25 | 1        | 28 | 47 | 2        | 3  | 28 |
| 24   | 1      | 27 | 31 | 1        | 12 | 39 | 1         | 25 | 38 | 1       | 12 | 29 | 2        | 29 | 43 | 3        | 4  | 46 |
| 25   | 2      | 24 | 47 | 2        | 10 | 38 | 2         | 24 | 40 | 2       | 12 | 35 | 3        | 30 | 40 | 4        | 6  | 4  |
| 26   | 3      | 22 | 4  | 3        | 8  | 39 | 3         | 23 | 44 | 3       | 12 | 43 | 4        | 31 | 39 | 5        | 7  | 22 |
| 27   | 4      | 19 | 22 | 4        | 6  | 42 | 4         | 22 | 50 | 4       | 12 | 53 | 5        | 32 | 39 | 6        | 8  | 40 |
| 28   | 5      | 16 | 41 | 5        | 4  | 47 | 5         | 21 | 59 | 5       | 13 | 5  | 6        | 33 | 40 | 7        | 9  | 58 |
| 29   | 6      | 14 | 1  | 6        | 2  | 54 | 6         | 21 | 10 | 6       | 13 | 19 | 7        | 34 | 42 | 8        | 11 | 16 |
| 30   | 7      | 11 | 22 | 7        | 1  | 3  | 7         | 20 | 23 | 7       | 13 | 35 | 8        | 35 | 45 | 9        | 12 | 34 |
| 31   | 8      | 8  | 45 | 7        | 59 | 14 |           |    |    | 8       | 13 | 54 |          |    |    | 10       | 13 | 52 |

Supplementum Ephemeridum,<sup>a</sup>  
*Ephemeris motus Solis anni 1601.*

|      | Ianuarius | Februarius | Martius   | Aprilis   | Maius     | Iunius    |
|------|-----------|------------|-----------|-----------|-----------|-----------|
| Dies | ♊         | ♋          | ♌         | ♍         | ♎         | ♏         |
|      | P. i. ii. | P. i. ii.  | P. i. ii. | P. i. ii. | P. i. ii. | P. i. ii. |
| 1    | 11 15 11  | 12 50 1    | 11 3 43   | 11 48 32  | 11 1 35   | 10 46 1   |
| 2    | 12 16 28  | 13 50 52   | 12 3 46   | 12 47 28  | 11 59 31  | 11 43 16  |
| 3    | 13 17 45  | 14 51 42   | 13 3 47   | 13 46 23  | 12 57 25  | 12 40 30  |
| 4    | 14 19 2   | 15 52 31   | 14 3 46   | 14 45 16  | 13 55 18  | 13 37 43  |
| 5    | 15 20 18  | 16 53 18   | 15 3 42   | 15 44 6   | 14 53 9   | 14 34 55  |
| 6    | 16 21 34  | 17 54 4    | 16 3 36   | 16 42 54  | 15 50 59  | 15 32 6   |
| 7    | 17 22 49  | 18 54 48   | 17 3 28   | 17 41 40  | 16 48 46  | 16 29 17  |
| 8    | 18 24 4   | 19 55 31   | 18 3 18   | 18 40 23  | 17 46 32  | 17 26 27  |
| 9    | 19 25 18  | 20 56 13   | 19 3 6    | 19 39 3   | 18 44 16  | 18 23 37  |
| 10   | 20 26 32  | 21 56 53   | 20 2 52   | 20 37 42  | 19 41 59  | 19 20 46  |
| 11   | 21 27 45  | 22 57 31   | 21 2 36   | 21 36 18  | 20 39 40  | 20 17 54  |
| 12   | 22 28 57  | 23 58 7    | 22 2 18   | 22 34 52  | 21 37 20  | 21 15 2   |
| 13   | 23 30 9   | 24 58 41   | 23 1 58   | 23 33 24  | 22 34 58  | 22 12 9   |
| 14   | 24 31 20  | 25 59 13   | 24 1 35   | 24 31 54  | 23 32 35  | 23 9 16   |
| 15   | 25 32 31  | 26 59 44   | 25 1 10   | 25 30 23  | 24 30 11  | 24 6 22   |
| 16   | 26 33 41  | 28 0 13    | 26 0 43   | 26 28 50  | 25 27 45  | 25 3 28   |
| 17   | 27 34 50  | 29 0 40    | 27 0 13   | 27 27 15  | 26 25 17  | 26 0 34   |
| 18   | 28 35 58  | 0 1 4      | 27 59 42  | 28 25 38  | 27 22 48  | 26 57 39  |
| 19   | 29 37 5   | 1 1 28     | 28 59 8   | 29 23 59  | 28 20 18  | 27 54 44  |
| 20   | 0 38 11   | 2 1 50     | 29 58 32  | 0 22 17   | 29 17 47  | 28 51 49  |
| 21   | 1 39 16   | 3 2 10     | 0 57 54   | 1 20 33   | 0 15 15   | 29 48 54  |
| 22   | 2 40 20   | 4 2 28     | 1 57 14   | 2 18 47   | 1 12 41   | 0 45 58   |
| 23   | 3 41 23   | 5 2 44     | 2 56 32   | 3 17 0    | 2 10 6    | 1 43 2    |
| 24   | 4 42 25   | 6 2 58     | 3 55 48   | 4 15 11   | 3 7 30    | 2 40 6    |
| 25   | 5 43 26   | 7 3 11     | 4 55 1    | 5 13 20   | 4 4 53    | 3 37 9    |
| 26   | 6 44 26   | 8 3 22     | 5 54 11   | 6 11 28   | 5 2 15    | 4 34 12   |
| 27   | 7 45 25   | 9 3 31     | 6 53 20   | 7 9 32    | 5 59 36   | 5 31 15   |
| 28   | 8 46 23   | 10 3 37    | 7 52 27   | 8 7 35    | 6 56 55   | 6 28 18   |
| 29   | 9 47 19   |            | 8 51 32   | 9 5 37    | 7 54 13   | 7 25 21   |
| 30   | 10 48 14  |            | 9 50 34   | 10 3 37   | 8 51 30   | 8 22 24   |
| 31   | 11 49 8   |            | 10 49 34  |           | 9 48 46   |           |



# Ac Tab. Secundorum Mobilium.

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Qui est primus post Bissextilem.

| Iunius |    |    | Iulius |    |    | Augustus |    |    | September |    |    | October |    |    | November |    |    | December |    |    |
|--------|----|----|--------|----|----|----------|----|----|-----------|----|----|---------|----|----|----------|----|----|----------|----|----|
| II     |    |    | ☉      |    |    | ☿        |    |    | ♊         |    |    | ♈       |    |    | ♏        |    |    | ♐        |    |    |
| P      | i  | II | P      | i  | II | P        | i  | II | P         | i  | II | P       | i  | II | P        | i  | II | P        | i  | II |
| 10     | 46 | 1  | 9      | 19 | 27 | 8        | 52 | 18 | 8         | 43 | 22 | 8       | 5  | 16 | 8        | 59 | 39 | 9        | 22 | 0  |
| 11     | 43 | 16 | 10     | 16 | 31 | 9        | 49 | 43 | 9         | 41 | 35 | 9       | 4  | 33 | 10       | 0  | 0  | 10       | 23 | 5  |
| 12     | 40 | 30 | 11     | 13 | 35 | 10       | 47 | 9  | 10        | 39 | 50 | 10      | 3  | 52 | 11       | 0  | 23 | 11       | 24 | 11 |
| 13     | 37 | 43 | 12     | 10 | 39 | 11       | 44 | 36 | 11        | 38 | 7  | 11      | 3  | 14 | 12       | 0  | 48 | 12       | 25 | 18 |
| 14     | 34 | 55 | 13     | 7  | 43 | 12       | 42 | 5  | 12        | 36 | 26 | 12      | 2  | 38 | 13       | 1  | 14 | 13       | 26 | 26 |
| 15     | 32 | 6  | 14     | 4  | 48 | 13       | 39 | 36 | 13        | 34 | 47 | 13      | 2  | 4  | 14       | 1  | 42 | 14       | 27 | 35 |
| 16     | 29 | 17 | 15     | 1  | 54 | 14       | 37 | 7  | 14        | 33 | 11 | 14      | 1  | 32 | 15       | 2  | 12 | 15       | 28 | 44 |
| 17     | 26 | 27 | 15     | 59 | 0  | 15       | 34 | 39 | 15        | 31 | 37 | 15      | 1  | 2  | 16       | 2  | 44 | 16       | 29 | 54 |
| 18     | 23 | 37 | 16     | 56 | 6  | 16       | 32 | 12 | 16        | 30 | 5  | 16      | 0  | 34 | 17       | 3  | 18 | 17       | 31 | 5  |
| 19     | 20 | 46 | 17     | 53 | 13 | 17       | 29 | 47 | 17        | 28 | 36 | 17      | 0  | 9  | 18       | 3  | 54 | 18       | 32 | 17 |
| 20     | 17 | 54 | 18     | 50 | 20 | 18       | 27 | 23 | 18        | 27 | 8  | 17      | 59 | 45 | 19       | 4  | 31 | 19       | 33 | 29 |
| 21     | 15 | 2  | 19     | 47 | 27 | 19       | 25 | 1  | 19        | 25 | 42 | 18      | 59 | 23 | 20       | 5  | 10 | 20       | 34 | 42 |
| 22     | 12 | 9  | 20     | 44 | 35 | 20       | 22 | 40 | 20        | 24 | 18 | 19      | 59 | 3  | 21       | 5  | 51 | 21       | 35 | 56 |
| 23     | 9  | 16 | 21     | 41 | 43 | 21       | 20 | 21 | 21        | 22 | 56 | 20      | 58 | 46 | 22       | 6  | 33 | 22       | 37 | 10 |
| 24     | 6  | 22 | 22     | 38 | 52 | 22       | 18 | 3  | 22        | 21 | 36 | 21      | 58 | 31 | 23       | 7  | 17 | 23       | 38 | 25 |
| 25     | 3  | 28 | 23     | 36 | 1  | 23       | 15 | 46 | 23        | 20 | 18 | 22      | 58 | 19 | 24       | 8  | 3  | 24       | 39 | 40 |
| 26     | 0  | 34 | 24     | 33 | 11 | 24       | 13 | 31 | 24        | 19 | 3  | 23      | 58 | 8  | 25       | 8  | 50 | 25       | 40 | 56 |
| 27     | 54 | 44 | 25     | 30 | 21 | 25       | 11 | 18 | 25        | 17 | 51 | 24      | 58 | 0  | 26       | 9  | 39 | 26       | 42 | 12 |
| 28     | 51 | 49 | 26     | 27 | 32 | 26       | 9  | 8  | 26        | 16 | 41 | 25      | 57 | 54 | 27       | 10 | 29 | 27       | 43 | 28 |
| 29     | 48 | 54 | 27     | 24 | 44 | 27       | 6  | 58 | 27        | 15 | 33 | 26      | 57 | 50 | 28       | 11 | 20 | 28       | 44 | 45 |
| 30     | 45 | 58 | 28     | 21 | 57 | 28       | 4  | 50 | 28        | 14 | 26 | 27      | 57 | 49 | 29       | 12 | 12 | 29       | 46 | 2  |
| 1      | 43 | 2  | 29     | 19 | 10 | 29       | 2  | 44 | 29        | 13 | 21 | 28      | 57 | 49 | 30       | 13 | 6  | 30       | 47 | 19 |
| 2      | 40 | 6  | 30     | 16 | 24 | 0        | 0  | 40 | 0         | 12 | 19 | 29      | 57 | 51 | 1        | 14 | 1  | 1        | 48 | 37 |
| 3      | 37 | 9  | 1      | 13 | 39 | 0        | 58 | 38 | 1         | 11 | 19 | 0       | 57 | 55 | 2        | 14 | 57 | 2        | 49 | 55 |
| 4      | 34 | 12 | 2      | 10 | 55 | 1        | 56 | 37 | 2         | 10 | 21 | 1       | 58 | 1  | 3        | 15 | 54 | 3        | 51 | 13 |
| 5      | 31 | 15 | 3      | 8  | 12 | 2        | 54 | 38 | 3         | 9  | 25 | 2       | 58 | 9  | 4        | 16 | 52 | 4        | 52 | 31 |
| 6      | 28 | 18 | 4      | 5  | 30 | 3        | 52 | 41 | 4         | 8  | 31 | 3       | 58 | 20 | 5        | 17 | 51 | 5        | 53 | 49 |
| 7      | 25 | 21 | 5      | 2  | 49 | 4        | 50 | 45 | 5         | 7  | 39 | 4       | 58 | 32 | 6        | 18 | 51 | 6        | 55 | 7  |
| 8      | 22 | 24 | 6      | 0  | 9  | 5        | 48 | 52 | 6         | 6  | 49 | 5       | 58 | 16 | 7        | 19 | 53 | 7        | 56 | 25 |
|        |    |    | 6      | 57 | 31 | 6        | 47 | 0  | 7         | 6  | 1  | 6       | 59 | 2  | 8        | 20 | 56 | 8        | 57 | 43 |
|        |    |    | 7      | 54 | 54 | 7        | 45 | 10 |           |    |    | 7       | 59 | 20 |          |    |    | 9        | 59 | 0  |

| Dies | Ianuarius      |    |    | Februarius |    |    | Martius |    |    | Aprilis |    |    | Maius |    |    | Iunius         |    |    |
|------|----------------|----|----|------------|----|----|---------|----|----|---------|----|----|-------|----|----|----------------|----|----|
|      | ♏              |    |    | ♍          |    |    | ♌       |    |    | ♋       |    |    | ♊     |    |    | ♏              |    |    |
|      | P              | r  | h  | P          | r  | h  | P       | r  | h  | P       | r  | h  | P     | r  | h  | P              | r  | h  |
| 1    | 11             | 0  | 17 | 12         | 35 | 15 | 10      | 49 | 10 | 11      | 34 | 16 | 10    | 47 | 35 | 10             | 32 | 10 |
| 2    | 12             | 1  | 34 | 13         | 36 | 6  | 11      | 49 | 14 | 12      | 33 | 13 | 11    | 45 | 32 | 11             | 29 | 25 |
| 3    | 13             | 2  | 51 | 14         | 36 | 56 | 12      | 49 | 16 | 13      | 32 | 8  | 12    | 43 | 27 | 12             | 26 | 39 |
| 4    | 14             | 4  | 8  | 15         | 37 | 45 | 13      | 49 | 15 | 14      | 31 | 1  | 13    | 41 | 20 | 13             | 23 | 52 |
| 5    | 15             | 5  | 24 | 16         | 38 | 32 | 14      | 49 | 12 | 15      | 29 | 52 | 14    | 39 | 11 | 14             | 21 | 5  |
| 6    | 16             | 6  | 40 | 17         | 39 | 18 | 15      | 49 | 7  | 16      | 28 | 40 | 15    | 37 | 1  | 15             | 18 | 17 |
| 7    | 17             | 7  | 56 | 18         | 40 | 3  | 16      | 49 | 0  | 17      | 27 | 25 | 16    | 34 | 49 | 16             | 15 | 28 |
| 8    | 18             | 9  | 11 | 19         | 40 | 47 | 17      | 48 | 51 | 18      | 26 | 9  | 17    | 32 | 34 | 17             | 12 | 39 |
| 9    | 19             | 10 | 26 | 20         | 41 | 29 | 18      | 48 | 39 | 19      | 24 | 51 | 18    | 30 | 19 | 18             | 9  | 49 |
| 10   | 20             | 11 | 40 | 21         | 42 | 10 | 19      | 48 | 25 | 20      | 23 | 30 | 19    | 28 | 2  | 19             | 6  | 58 |
| 11   | 21             | 12 | 53 | 22         | 42 | 49 | 20      | 48 | 9  | 21      | 22 | 7  | 20    | 25 | 43 | 20             | 4  | 6  |
| 12   | 22             | 14 | 6  | 23         | 43 | 26 | 21      | 47 | 51 | 22      | 20 | 41 | 21    | 23 | 23 | 21             | 1  | 14 |
| 13   | 23             | 15 | 18 | 24         | 44 | 1  | 22      | 47 | 31 | 23      | 19 | 13 | 22    | 21 | 2  | 21             | 58 | 21 |
| 14   | 24             | 16 | 30 | 25         | 44 | 34 | 23      | 47 | 9  | 24      | 17 | 43 | 23    | 18 | 39 | 22             | 55 | 28 |
| 15   | 25             | 17 | 41 | 26         | 45 | 5  | 24      | 46 | 44 | 25      | 16 | 12 | 24    | 16 | 15 | 23             | 52 | 34 |
| 16   | 26             | 18 | 51 | 27         | 45 | 34 | 25      | 46 | 17 | 26      | 14 | 39 | 25    | 13 | 50 | 24             | 49 | 40 |
| 17   | 27             | 20 | 0  | 28         | 46 | 1  | 26      | 45 | 48 | 27      | 13 | 4  | 26    | 11 | 23 | 25             | 46 | 46 |
| 18   | 28             | 21 | 8  | 29         | 46 | 27 | 27      | 45 | 17 | 28      | 11 | 26 | 27    | 8  | 55 | 26             | 43 | 51 |
| 19   | 29             | 22 | 15 | 30         | 46 | 51 | 28      | 44 | 44 | 29      | 9  | 46 | 28    | 6  | 25 | 27             | 40 | 56 |
| 20   | 0 <sup>h</sup> | 23 | 21 | 1          | 47 | 13 | 29      | 44 | 9  | 0       | 8  | 4  | 29    | 3  | 54 | 28             | 38 | 1  |
| 21   | 1              | 24 | 26 | 2          | 47 | 33 | 0       | 43 | 31 | 1       | 6  | 20 | 0     | 1  | 22 | 29             | 35 | 6  |
| 22   | 2              | 25 | 31 | 3          | 47 | 51 | 1       | 42 | 51 | 2       | 4  | 35 | 0     | 58 | 49 | 0 <sup>h</sup> | 32 | 10 |
| 23   | 3              | 26 | 35 | 4          | 48 | 8  | 2       | 42 | 9  | 3       | 2  | 49 | 1     | 56 | 14 | 1              | 29 | 14 |
| 24   | 4              | 27 | 37 | 5          | 48 | 23 | 3       | 41 | 25 | 4       | 1  | 1  | 2     | 53 | 38 | 2              | 26 | 18 |
| 25   | 5              | 28 | 38 | 6          | 48 | 36 | 4       | 40 | 39 | 4       | 59 | 12 | 3     | 51 | 1  | 3              | 23 | 21 |
| 26   | 6              | 29 | 38 | 7          | 48 | 47 | 5       | 39 | 51 | 5       | 57 | 21 | 4     | 48 | 23 | 4              | 20 | 24 |
| 27   | 7              | 30 | 37 | 8          | 48 | 57 | 6       | 39 | 1  | 6       | 55 | 27 | 5     | 45 | 44 | 5              | 17 | 27 |
| 28   | 8              | 31 | 35 | 9          | 49 | 4  | 7       | 38 | 8  | 7       | 53 | 32 | 6     | 43 | 4  | 6              | 14 | 30 |
| 29   | 9              | 32 | 32 |            |    |    | 8       | 37 | 13 | 8       | 51 | 35 | 7     | 40 | 22 | 7              | 11 | 33 |
| 30   | 10             | 33 | 28 |            |    |    | 9       | 36 | 16 | 9       | 49 | 36 | 8     | 37 | 39 | 8              | 8  | 36 |
| 31   | 11             | 34 | 22 |            |    |    | 10      | 35 | 17 |         |    |    | 9     | 34 | 55 |                |    |    |



# Ac Tab. Secundorum Mobilium.

Secundi post bissextilem.

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| Iunius |    |    |
|--------|----|----|
| P      | i  | u  |
| 10     | 32 | 10 |
| 11     | 29 | 25 |
| 12     | 26 | 39 |
| 13     | 23 | 52 |
| 14     | 21 | 5  |
| 15     | 18 | 17 |
| 16     | 15 | 28 |
| 17     | 12 | 39 |
| 18     | 9  | 49 |
| 19     | 6  | 58 |
| 20     | 4  | 6  |
| 21     | 1  | 14 |
| 22     | 58 | 21 |
| 23     | 55 | 28 |
| 24     | 52 | 34 |
| 25     | 49 | 40 |
| 26     | 46 | 46 |
| 27     | 43 | 51 |
| 28     | 40 | 56 |
| 29     | 38 | 1  |
| 30     | 35 | 6  |
| 31     | 32 | 10 |

| Dies | Iulius |    |    | Augustus |    |    | September |    |    | October |    |    | November |    |    | December |    |    |
|------|--------|----|----|----------|----|----|-----------|----|----|---------|----|----|----------|----|----|----------|----|----|
|      | P      | i  | u  | P        | i  | u  | P         | i  | u  | P       | i  | u  | P        | i  | u  | P        | i  | u  |
| 1    | 9      | 5  | 39 | 8        | 38 | 24 | 8         | 29 | 17 | 7       | 50 | 55 | 8        | 45 | 2  | 9        | 7  | 12 |
| 2    | 10     | 2  | 43 | 9        | 35 | 49 | 9         | 27 | 31 | 8       | 50 | 12 | 9        | 45 | 22 | 10       | 8  | 17 |
| 3    | 10     | 59 | 47 | 10       | 33 | 15 | 10        | 25 | 47 | 9       | 49 | 31 | 10       | 45 | 44 | 11       | 9  | 23 |
| 4    | 11     | 56 | 51 | 11       | 30 | 42 | 11        | 24 | 4  | 10      | 48 | 52 | 11       | 46 | 8  | 12       | 10 | 30 |
| 5    | 12     | 53 | 55 | 12       | 28 | 10 | 12        | 22 | 23 | 11      | 48 | 15 | 12       | 46 | 34 | 13       | 11 | 37 |
| 6    | 13     | 51 | 0  | 13       | 25 | 39 | 13        | 20 | 44 | 12      | 47 | 40 | 13       | 47 | 2  | 14       | 12 | 45 |
| 7    | 14     | 48 | 5  | 14       | 23 | 9  | 14        | 19 | 7  | 13      | 47 | 8  | 14       | 47 | 32 | 15       | 13 | 54 |
| 8    | 15     | 45 | 11 | 15       | 20 | 41 | 15        | 17 | 32 | 14      | 46 | 38 | 15       | 48 | 3  | 16       | 15 | 4  |
| 9    | 16     | 42 | 17 | 16       | 18 | 14 | 16        | 16 | 0  | 15      | 46 | 10 | 16       | 48 | 36 | 17       | 16 | 15 |
| 10   | 17     | 39 | 24 | 17       | 15 | 50 | 17        | 14 | 29 | 16      | 45 | 44 | 17       | 49 | 11 | 18       | 17 | 26 |
| 11   | 18     | 36 | 31 | 18       | 13 | 26 | 18        | 13 | 0  | 17      | 45 | 20 | 18       | 49 | 48 | 19       | 18 | 38 |
| 12   | 19     | 33 | 38 | 19       | 11 | 3  | 19        | 11 | 33 | 18      | 44 | 59 | 19       | 50 | 27 | 20       | 19 | 51 |
| 13   | 20     | 30 | 46 | 20       | 8  | 42 | 20        | 10 | 8  | 19      | 44 | 49 | 20       | 51 | 7  | 21       | 21 | 4  |
| 14   | 21     | 27 | 54 | 21       | 6  | 22 | 21        | 8  | 45 | 20      | 44 | 21 | 21       | 51 | 49 | 22       | 22 | 18 |
| 15   | 22     | 25 | 3  | 22       | 4  | 4  | 22        | 7  | 25 | 21      | 44 | 5  | 22       | 52 | 33 | 23       | 23 | 33 |
| 16   | 23     | 22 | 12 | 23       | 1  | 47 | 23        | 6  | 7  | 22      | 43 | 51 | 23       | 53 | 18 | 24       | 24 | 48 |
| 17   | 24     | 19 | 22 | 24       | 59 | 32 | 24        | 4  | 51 | 23      | 43 | 40 | 24       | 54 | 5  | 25       | 26 | 3  |
| 18   | 25     | 16 | 32 | 25       | 57 | 18 | 25        | 3  | 38 | 24      | 43 | 32 | 25       | 54 | 53 | 26       | 27 | 19 |
| 19   | 26     | 13 | 43 | 26       | 55 | 6  | 26        | 2  | 27 | 25      | 43 | 25 | 26       | 55 | 43 | 27       | 28 | 35 |
| 20   | 27     | 10 | 55 | 27       | 52 | 56 | 27        | 1  | 18 | 26      | 43 | 20 | 27       | 56 | 34 | 28       | 29 | 52 |
| 21   | 28     | 8  | 8  | 28       | 50 | 49 | 28        | 0  | 11 | 27      | 43 | 18 | 28       | 57 | 26 | 29       | 31 | 9  |
| 22   | 29     | 5  | 21 | 29       | 48 | 42 | 29        | 59 | 6  | 28      | 43 | 18 | 29       | 58 | 19 | 30       | 32 | 26 |
| 23   | 0      | 2  | 35 | 30       | 46 | 37 | 30        | 58 | 3  | 29      | 43 | 20 | 0        | 59 | 13 | 1        | 33 | 44 |
| 24   | 0      | 59 | 49 | 0        | 44 | 34 | 0         | 57 | 2  | 0       | 43 | 24 | 2        | 0  | 9  | 2        | 35 | 2  |
| 25   | 1      | 57 | 4  | 1        | 42 | 33 | 1         | 56 | 3  | 1       | 43 | 30 | 3        | 1  | 6  | 3        | 36 | 20 |
| 26   | 2      | 54 | 20 | 2        | 40 | 34 | 2         | 55 | 6  | 2       | 43 | 37 | 4        | 2  | 4  | 4        | 37 | 43 |
| 27   | 3      | 51 | 37 | 3        | 38 | 37 | 3         | 54 | 11 | 3       | 43 | 46 | 5        | 3  | 3  | 5        | 38 | 56 |
| 28   | 4      | 48 | 56 | 4        | 36 | 41 | 4         | 53 | 19 | 4       | 43 | 57 | 6        | 4  | 3  | 6        | 40 | 14 |
| 29   | 5      | 46 | 16 | 5        | 34 | 47 | 5         | 52 | 29 | 5       | 44 | 10 | 7        | 5  | 5  | 7        | 41 | 32 |
| 30   | 6      | 43 | 37 | 6        | 32 | 55 | 6         | 51 | 41 | 6       | 44 | 25 | 8        | 6  | 8  | 8        | 42 | 50 |
| 31   | 7      | 41 | 0  | 7        | 31 | 5  |           |    |    | 7       | 44 | 42 |          |    |    | 9        | 44 | 7  |

E

Supplementum Ephemeridum,  
Ephemeris motus Solis ad annum 1603.

Epemeris motus Solis ad annum 1803.

|      | Ianuarius | Februarius | Martius | Aprilis | Maius | Iunius |    |    |    |    |    |    |    |    |    |    |    |    |
|------|-----------|------------|---------|---------|-------|--------|----|----|----|----|----|----|----|----|----|----|----|----|
| Dies | ♌         | ♍          | ♎       | ♏       | ♐     | ♑      |    |    |    |    |    |    |    |    |    |    |    |    |
|      | P         | i          | h       | P       | i     | h      | P  | i  | h  | P  | i  | h  | P  | i  | h  |    |    |    |
| 1    | 10        | 45         | 24      | 12      | 20    | 28     | 10 | 34 | 36 | 11 | 20 | 0  | 10 | 33 | 33 | 10 | 18 | 20 |
| 2    | 11        | 46         | 41      | 13      | 21    | 20     | 11 | 34 | 40 | 12 | 18 | 58 | 11 | 31 | 30 | 11 | 15 | 35 |
| 3    | 12        | 47         | 58      | 14      | 22    | 11     | 12 | 34 | 42 | 13 | 17 | 54 | 12 | 29 | 25 | 12 | 12 | 49 |
| 4    | 13        | 49         | 15      | 15      | 23    | 0      | 13 | 34 | 42 | 14 | 16 | 48 | 13 | 27 | 19 | 13 | 10 | 2  |
| 5    | 14        | 50         | 32      | 16      | 23    | 48     | 14 | 34 | 40 | 15 | 15 | 39 | 14 | 25 | 11 | 14 | 7  | 15 |
| 6    | 15        | 51         | 48      | 17      | 24    | 35     | 15 | 34 | 35 | 16 | 14 | 28 | 15 | 23 | 1  | 15 | 4  | 27 |
| 7    | 16        | 53         | 4       | 18      | 25    | 21     | 16 | 34 | 28 | 17 | 13 | 14 | 16 | 20 | 50 | 16 | 1  | 39 |
| 8    | 17        | 54         | 19      | 19      | 26    | 5      | 17 | 34 | 19 | 18 | 11 | 57 | 17 | 18 | 36 | 16 | 58 | 50 |
| 9    | 18        | 55         | 34      | 20      | 26    | 47     | 18 | 34 | 8  | 19 | 10 | 39 | 18 | 16 | 21 | 17 | 56 | 0  |
| 10   | 19        | 56         | 48      | 21      | 27    | 27     | 19 | 33 | 55 | 20 | 9  | 18 | 19 | 14 | 4  | 18 | 53 | 9  |
| 11   | 20        | 58         | 2       | 22      | 28    | 6      | 20 | 33 | 40 | 21 | 7  | 55 | 20 | 11 | 46 | 19 | 50 | 18 |
| 12   | 21        | 59         | 15      | 23      | 28    | 43     | 21 | 33 | 23 | 22 | 6  | 30 | 21 | 9  | 26 | 20 | 47 | 26 |
| 13   | 23        | 0          | 28      | 24      | 29    | 18     | 22 | 33 | 4  | 23 | 5  | 3  | 22 | 7  | 5  | 21 | 44 | 33 |
| 14   | 24        | 1          | 40      | 25      | 29    | 51     | 23 | 32 | 42 | 24 | 3  | 34 | 23 | 4  | 42 | 22 | 41 | 40 |
| 15   | 25        | 2          | 51      | 26      | 30    | 23     | 24 | 32 | 18 | 25 | 2  | 4  | 24 | 2  | 18 | 23 | 38 | 47 |
| 16   | 26        | 4          | 1       | 27      | 30    | 52     | 25 | 31 | 52 | 26 | 0  | 32 | 24 | 59 | 53 | 24 | 35 | 53 |
| 17   | 27        | 5          | 10      | 28      | 31    | 20     | 26 | 31 | 23 | 26 | 58 | 58 | 25 | 57 | 25 | 25 | 32 | 59 |
| 18   | 28        | 6          | 18      | 29      | 31    | 46     | 27 | 30 | 53 | 27 | 57 | 22 | 26 | 54 | 57 | 26 | 30 | 5  |
| 19   | 29        | 7          | 25      | 0       | 32    | 11     | 28 | 30 | 20 | 28 | 55 | 44 | 27 | 52 | 28 | 27 | 27 | 10 |
| 20   | 0         | 8          | 31      | 1       | 32    | 34     | 29 | 29 | 45 | 29 | 54 | 4  | 28 | 49 | 58 | 28 | 24 | 15 |
| 21   | 1         | 9          | 36      | 2       | 32    | 55     | 0  | 29 | 8  | 0  | 52 | 22 | 29 | 47 | 27 | 29 | 21 | 20 |
| 22   | 2         | 10         | 41      | 3       | 33    | 14     | 1  | 28 | 29 | 1  | 50 | 37 | 0  | 44 | 54 | 0  | 18 | 24 |
| 23   | 3         | 11         | 45      | 4       | 33    | 31     | 2  | 27 | 48 | 2  | 48 | 50 | 1  | 42 | 20 | 1  | 15 | 28 |
| 24   | 4         | 12         | 48      | 5       | 33    | 47     | 3  | 27 | 5  | 3  | 47 | 1  | 2  | 39 | 45 | 2  | 12 | 32 |
| 25   | 5         | 13         | 50      | 6       | 34    | 1      | 4  | 26 | 20 | 4  | 45 | 11 | 3  | 37 | 9  | 3  | 9  | 35 |
| 26   | 6         | 14         | 51      | 7       | 34    | 13     | 5  | 25 | 32 | 5  | 43 | 19 | 4  | 34 | 31 | 4  | 6  | 38 |
| 27   | 7         | 15         | 50      | 8       | 34    | 23     | 6  | 24 | 42 | 6  | 41 | 25 | 5  | 31 | 52 | 5  | 3  | 41 |
| 28   | 8         | 16         | 48      | 9       | 34    | 30     | 7  | 23 | 49 | 7  | 39 | 30 | 6  | 29 | 12 | 6  | 0  | 44 |
| 29   | 9         | 17         | 45      |         |       |        | 8  | 22 | 55 | 8  | 37 | 33 | 7  | 26 | 31 | 6  | 57 | 47 |
| 30   | 10        | 18         | 41      |         |       |        | 9  | 21 | 59 | 9  | 35 | 34 | 8  | 23 | 49 | 7  | 54 | 50 |
| 31   | 11        | 19         | 35      |         |       |        | 10 | 21 | 1  |    |    |    | 9  | 21 | 5  |    |    |    |



# Ac Tab. Secundorum Mobilium.

Tertium post intercalarem.

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| Iunius |    |    |
|--------|----|----|
| P      | i  | '' |
| 10     | 18 | 20 |
| 11     | 15 | 35 |
| 12     | 12 | 49 |
| 13     | 10 | 2  |
| 14     | 7  | 15 |
| 15     | 4  | 27 |
| 16     | 1  | 39 |
| 16     | 58 | 50 |
| 17     | 56 | 0  |
| 18     | 53 | 9  |
| 19     | 50 | 18 |
| 20     | 47 | 26 |
| 21     | 44 | 33 |
| 22     | 41 | 40 |
| 23     | 38 | 47 |
| 24     | 35 | 53 |
| 25     | 32 | 59 |
| 26     | 30 | 5  |
| 27     | 27 | 10 |
| 28     | 24 | 15 |
| 29     | 21 | 20 |
| 30     | 18 | 24 |
| 1      | 15 | 28 |
| 2      | 12 | 32 |
| 3      | 9  | 35 |
| 4      | 6  | 38 |
| 5      | 3  | 41 |
| 6      | 0  | 44 |
| 6      | 57 | 47 |
| 7      | 54 | 50 |

| Dies | Iulius |    |    | Augustus |    |    | September |    |    | October |    |    | November |    |    | December |    |    |
|------|--------|----|----|----------|----|----|-----------|----|----|---------|----|----|----------|----|----|----------|----|----|
|      | ♊      |    |    | ♋        |    |    | ♌         |    |    | ♍       |    |    | ♎        |    |    | ♏        |    |    |
|      | P      | i  | '' | P        | i  | '' | P         | i  | '' | P       | i  | '' | P        | i  | '' | P        | i  | '' |
| 1    | 8      | 51 | 53 | 8        | 24 | 33 | 8         | 15 | 11 | 7       | 36 | 34 | 8        | 30 | 24 | 8        | 52 | 22 |
| 2    | 9      | 48 | 57 | 9        | 21 | 57 | 9         | 13 | 24 | 8       | 35 | 49 | 9        | 30 | 44 | 9        | 53 | 27 |
| 3    | 10     | 46 | 1  | 10       | 19 | 22 | 10        | 11 | 39 | 9       | 35 | 7  | 10       | 31 | 6  | 10       | 54 | 33 |
| 4    | 11     | 43 | 5  | 11       | 16 | 48 | 11        | 9  | 56 | 10      | 34 | 27 | 11       | 31 | 30 | 11       | 55 | 39 |
| 5    | 12     | 40 | 9  | 12       | 14 | 16 | 12        | 8  | 15 | 11      | 33 | 49 | 12       | 31 | 55 | 12       | 56 | 46 |
| 6    | 13     | 37 | 13 | 13       | 11 | 45 | 13        | 6  | 36 | 12      | 33 | 13 | 13       | 32 | 22 | 13       | 57 | 54 |
| 7    | 14     | 34 | 19 | 14       | 9  | 15 | 14        | 4  | 59 | 13      | 32 | 40 | 14       | 32 | 51 | 14       | 59 | 3  |
| 8    | 15     | 31 | 24 | 15       | 6  | 46 | 15        | 3  | 24 | 14      | 32 | 9  | 15       | 33 | 22 | 16       | 0  | 13 |
| 9    | 16     | 28 | 30 | 16       | 4  | 19 | 16        | 1  | 51 | 15      | 31 | 40 | 16       | 33 | 55 | 17       | 1  | 23 |
| 10   | 17     | 25 | 36 | 17       | 1  | 53 | 17        | 0  | 19 | 16      | 31 | 14 | 17       | 34 | 30 | 18       | 2  | 34 |
| 11   | 18     | 22 | 43 | 17       | 59 | 29 | 17        | 58 | 49 | 17      | 30 | 50 | 18       | 35 | 6  | 19       | 3  | 46 |
| 12   | 19     | 19 | 50 | 18       | 57 | 6  | 18        | 57 | 21 | 18      | 30 | 29 | 19       | 35 | 44 | 20       | 4  | 59 |
| 13   | 20     | 16 | 58 | 19       | 54 | 44 | 19        | 55 | 56 | 19      | 30 | 9  | 20       | 36 | 24 | 21       | 6  | 12 |
| 14   | 21     | 14 | 6  | 20       | 52 | 24 | 20        | 54 | 33 | 20      | 29 | 51 | 21       | 37 | 5  | 22       | 7  | 26 |
| 15   | 22     | 11 | 15 | 21       | 50 | 5  | 21        | 53 | 12 | 21      | 29 | 35 | 22       | 37 | 48 | 23       | 8  | 40 |
| 16   | 23     | 8  | 24 | 22       | 47 | 48 | 22        | 51 | 53 | 22      | 29 | 21 | 23       | 38 | 32 | 24       | 9  | 55 |
| 17   | 24     | 5  | 34 | 23       | 45 | 33 | 23        | 50 | 37 | 23      | 29 | 9  | 24       | 39 | 18 | 25       | 11 | 10 |
| 18   | 25     | 2  | 44 | 24       | 43 | 19 | 24        | 49 | 23 | 24      | 28 | 59 | 25       | 40 | 6  | 26       | 12 | 26 |
| 19   | 25     | 59 | 55 | 25       | 41 | 7  | 25        | 48 | 11 | 25      | 28 | 51 | 26       | 40 | 56 | 27       | 13 | 42 |
| 20   | 26     | 57 | 7  | 26       | 38 | 57 | 26        | 47 | 2  | 26      | 28 | 45 | 27       | 41 | 47 | 28       | 14 | 59 |
| 21   | 27     | 54 | 19 | 27       | 36 | 48 | 27        | 45 | 55 | 27      | 28 | 43 | 28       | 42 | 39 | 29       | 16 | 16 |
| 22   | 28     | 51 | 32 | 28       | 34 | 41 | 28        | 44 | 50 | 28      | 28 | 42 | 29       | 43 | 32 | 30       | 17 | 33 |
| 23   | 29     | 48 | 46 | 29       | 32 | 35 | 29        | 43 | 47 | 29      | 28 | 43 | 0        | 44 | 26 | 1        | 18 | 51 |
| 24   | 0      | 46 | 1  | 0        | 30 | 31 | 0         | 42 | 45 | 0       | 28 | 46 | 1        | 45 | 21 | 2        | 20 | 9  |
| 25   | 1      | 43 | 16 | 1        | 28 | 29 | 1         | 41 | 45 | 1       | 28 | 51 | 2        | 46 | 18 | 3        | 21 | 27 |
| 26   | 2      | 40 | 32 | 2        | 26 | 29 | 2         | 40 | 48 | 2       | 28 | 58 | 3        | 47 | 16 | 4        | 22 | 45 |
| 27   | 3      | 37 | 49 | 3        | 24 | 31 | 3         | 39 | 53 | 3       | 29 | 7  | 4        | 48 | 15 | 5        | 24 | 3  |
| 28   | 4      | 35 | 7  | 4        | 22 | 35 | 4         | 39 | 0  | 4       | 29 | 18 | 5        | 49 | 15 | 6        | 25 | 21 |
| 29   | 5      | 32 | 27 | 5        | 20 | 41 | 5         | 38 | 10 | 5       | 29 | 32 | 6        | 50 | 16 | 7        | 26 | 39 |
| 30   | 6      | 29 | 48 | 6        | 18 | 49 | 6         | 37 | 21 | 6       | 29 | 48 | 7        | 51 | 18 | 8        | 27 | 57 |
| 31   | 7      | 27 | 10 | 7        | 16 | 59 |           |    |    | 7       | 30 | 5  |          |    |    | 9        | 29 | 15 |

E 2

|  | V     |       |       | ♄     |       |       | II    |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | 0     | 10    | 20    | 0     | 10    | 20    | 0     | 10    | 20    |
| Aequatio veri loci Solis addenda post radicem, & subtrahenda ante. |       |       |       |       |       |       |       |       |       |
|  | I II  | I II  | I II  | I II  | I II  | I II  | I II  | I II  | I II  |
| 4  | 1 51  | 1 51  | 1 52  | 1 52  | 1 52  | 1 53  | 1 53  | 1 53  | 1 53  |
| 8  | 3 41  | 3 42  | 3 43  | 3 43  | 3 44  | 3 45  | 3 46  | 3 46  | 3 47  |
| 12   | 5 32  | 5 33  | 5 34  | 5 35  | 5 36  | 5 37  | 5 38  | 5 39  | 5 40  |
| 16   | 7 22  | 7 24  | 7 25  | 7 27  | 7 29  | 7 30  | 7 31  | 7 32  | 7 33  |
| 20   | 9 13  | 9 15  | 9 17  | 9 19  | 9 21  | 9 23  | 9 24  | 9 25  | 9 26  |
| 24   | 11 3  | 11 6  | 11 8  | 11 11 | 11 13 | 11 15 | 11 17 | 11 18 | 11 19 |
| 28   | 12 54 | 12 57 | 13 0  | 13 3  | 13 6  | 13 8  | 13 10 | 13 12 | 13 13 |
| 32   | 14 44 | 14 48 | 14 51 | 14 55 | 14 58 | 15 1  | 15 3  | 15 5  | 15 6  |
| 36   | 16 35 | 16 39 | 16 43 | 16 47 | 16 50 | 16 53 | 16 56 | 16 58 | 16 59 |
| 40   | 18 25 | 18 30 | 18 34 | 18 38 | 18 42 | 18 45 | 18 48 | 18 51 | 18 52 |
| 44   | 20 16 | 20 21 | 20 26 | 20 30 | 20 34 | 20 38 | 20 41 | 20 44 | 20 45 |
| 48   | 22 6  | 22 12 | 22 17 | 22 22 | 22 26 | 22 30 | 22 34 | 22 37 | 22 39 |
| 52   | 23 57 | 24 3  | 24 9  | 24 14 | 24 19 | 24 23 | 24 27 | 24 30 | 24 32 |
| 56   | 25 47 | 25 54 | 26 0  | 26 6  | 26 11 | 26 16 | 26 20 | 26 23 | 26 25 |
| 60   | 27 38 | 27 45 | 27 52 | 27 58 | 28 4  | 28 9  | 28 13 | 28 16 | 28 18 |
| 64   | 29 28 | 29 36 | 29 43 | 29 50 | 29 56 | 30 1  | 30 6  | 30 10 | 30 12 |
| 68   | 31 19 | 31 27 | 31 34 | 31 41 | 31 48 | 31 54 | 31 59 | 32 3  | 32 5  |
| 72   | 33 10 | 33 18 | 33 26 | 33 33 | 33 40 | 33 46 | 33 51 | 33 56 | 33 58 |
| 76   | 35 0  | 35 9  | 35 17 | 35 25 | 35 32 | 35 38 | 35 44 | 35 49 | 35 51 |
| 80   | 36 51 | 37 0  | 37 9  | 37 17 | 37 24 | 37 31 | 37 37 | 37 42 | 37 44 |
| 84   | 38 41 | 38 51 | 39 0  | 39 9  | 39 17 | 39 24 | 39 30 | 39 35 | 39 38 |
| 88   | 40 31 | 40 42 | 40 52 | 41 1  | 41 9  | 41 16 | 41 23 | 41 28 | 41 31 |
| 92   | 42 22 | 42 33 | 42 43 | 42 52 | 43 1  | 43 9  | 43 16 | 43 21 | 43 24 |
| 96   | 44 13 | 44 24 | 44 35 | 44 44 | 44 53 | 45 1  | 45 8  | 45 14 | 45 18 |
| 100  | 46 4  | 46 15 | 46 26 | 46 36 | 46 45 | 46 53 | 47 1  | 47 7  | 47 11 |



## Tabula Aequationis veri loci Solis.

| II    |       |
|-------|-------|
| 10    | 20    |
| &     |       |
| I 53  | I 53  |
| 3 46  | 3 47  |
| 5 39  | 5 40  |
| 7 32  | 7 33  |
| 9 25  | 9 26  |
| 11 18 | 11 19 |
| 13 12 | 13 13 |
| 15 5  | 15 6  |
| 16 58 | 16 59 |
| 18 51 | 18 52 |
| 20 44 | 20 45 |
| 22 37 | 22 39 |
| 24 30 | 24 32 |
| 26 23 | 26 25 |
| 28 16 | 28 18 |
| 30 10 | 30 12 |
| 32 3  | 32 5  |
| 34 56 | 33 58 |
| 36 49 | 35 51 |
| 38 42 | 37 44 |
| 40 35 | 39 38 |
| 42 28 | 41 31 |
| 44 21 | 43 24 |
| 46 14 | 45 18 |
| 48 7  | 47 11 |

| $\odot$  |       |       | $\Omega$ |       |       | $\mp$ |       |       |
|--|-------|-------|----------|-------|-------|-------|-------|-------|
| 0  | 10    | 20    | 0        | 10    | 20    | 0     | 10    | 20    |
| Aequatio veri loci Solis addenda post radicem, & subtrahenda ante. |       |       |          |       |       |       |       |       |
| 4  | I 53  | I 53  | I 53     | I 53  | I 52  | I 52  | I 52  | I 52  |
| 8  | 3 47  | 3 47  | 3 46     | 3 46  | 3 45  | 3 44  | 3 44  | 3 43  |
| 12   | 5 40  | 5 40  | 5 39     | 5 39  | 5 38  | 5 37  | 5 36  | 5 35  |
| 16   | 7 33  | 7 33  | 7 32     | 7 32  | 7 31  | 7 30  | 7 29  | 7 28  |
| 20   | 9 27  | 9 27  | 9 26     | 9 25  | 9 24  | 9 23  | 9 21  | 9 20  |
| 24   | 11 20 | 11 20 | 11 19    | 11 18 | 11 17 | 11 15 | 11 13 | 11 12 |
| 28   | 13 13 | 13 13 | 13 12    | 13 11 | 13 10 | 13 8  | 13 5  | 13 3  |
| 32   | 15 6  | 15 6  | 15 5     | 15 4  | 15 2  | 15 0  | 14 57 | 14 55 |
| 36   | 17 0  | 17 0  | 16 59    | 16 57 | 16 55 | 16 53 | 16 50 | 16 47 |
| 40   | 18 53 | 18 53 | 18 52    | 18 50 | 18 48 | 18 45 | 18 42 | 18 39 |
| 44   | 20 46 | 20 46 | 20 45    | 20 44 | 20 41 | 20 38 | 20 34 | 20 31 |
| 48   | 22 40 | 22 40 | 22 39    | 22 37 | 22 34 | 22 31 | 22 27 | 22 23 |
| 52   | 24 33 | 24 33 | 24 32    | 24 30 | 24 27 | 24 23 | 24 19 | 24 15 |
| 56   | 26 26 | 26 26 | 26 25    | 26 23 | 26 20 | 26 16 | 26 11 | 26 7  |
| 60   | 28 20 | 28 20 | 28 18    | 28 16 | 28 13 | 28 9  | 28 4  | 27 59 |
| 64   | 30 13 | 30 13 | 30 11    | 30 9  | 30 5  | 30 1  | 29 56 | 29 50 |
| 68   | 32 6  | 32 6  | 32 5     | 32 2  | 31 58 | 31 53 | 31 48 | 31 42 |
| 72   | 34 0  | 34 0  | 33 58    | 33 56 | 33 51 | 33 46 | 33 41 | 33 34 |
| 76   | 35 53 | 35 53 | 35 51    | 35 49 | 35 44 | 35 39 | 35 33 | 35 26 |
| 80   | 37 46 | 37 46 | 37 44    | 37 42 | 37 37 | 37 31 | 37 25 | 37 18 |
| 84   | 39 40 | 39 40 | 39 38    | 39 35 | 39 30 | 39 24 | 39 18 | 39 10 |
| 88   | 41 33 | 41 33 | 41 31    | 41 28 | 41 23 | 41 17 | 41 10 | 41 2  |
| 92   | 43 26 | 43 26 | 43 24    | 43 22 | 43 16 | 43 9  | 43 2  | 42 54 |
| 96   | 45 20 | 45 20 | 45 18    | 45 15 | 45 9  | 45 2  | 44 55 | 44 46 |
| 100  | 47 13 | 47 13 | 47 11    | 47 8  | 47 2  | 46 55 | 46 47 | 46 38 |

|  | ♊     |       |       | ♋     |       |       | ♌     |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | 0     | 10    | 20    | 0     | 10    | 20    | 0     | 10    | 20    |
| Aequatio veri loci Solis addenda post radicem, & auferenda ante. |       |       |       |       |       |       |       |       |       |
|  | I II  | I II  | I II  | I II  | I II  | I II  | I II  | I II  | I II  |
| 4  | 1 52  | 12 51 | 11 51 | 1 50  | 1 50  | 1 50  | 1 49  | 1 49  | 1 49  |
| 8  | 3 43  | 3 42  | 3 41  | 3 40  | 3 39  | 3 39  | 3 38  | 3 38  | 3 37  |
| 12   | 5 34  | 5 33  | 5 31  | 5 30  | 5 29  | 5 28  | 5 27  | 5 27  | 5 26  |
| 16   | 7 25  | 7 23  | 7 21  | 7 19  | 7 18  | 7 17  | 7 16  | 7 15  | 7 14  |
| 20   | 9 17  | 9 14  | 9 11  | 9 9   | 9 7   | 9 6   | 9 5   | 9 4   | 9 3   |
| 24   | 11 8  | 11 5  | 11 2  | 10 59 | 10 57 | 10 55 | 10 53 | 10 52 | 10 51 |
| 28   | 12 59 | 12 56 | 12 52 | 12 49 | 12 46 | 12 44 | 12 42 | 12 41 | 12 40 |
| 32   | 14 50 | 14 47 | 14 43 | 14 39 | 14 36 | 14 34 | 14 31 | 14 29 | 14 28 |
| 36   | 16 41 | 16 37 | 16 33 | 16 29 | 16 26 | 16 23 | 16 20 | 16 18 | 16 17 |
| 40   | 18 32 | 18 28 | 18 23 | 18 18 | 18 15 | 18 12 | 18 9  | 18 7  | 18 5  |
| 44   | 20 23 | 20 18 | 20 13 | 20 8  | 20 4  | 20 1  | 19 58 | 19 55 | 19 53 |
| 48   | 22 14 | 22 9  | 22 3  | 21 58 | 21 54 | 21 50 | 21 47 | 21 44 | 21 42 |
| 52   | 24 5  | 23 59 | 23 53 | 23 48 | 23 43 | 23 39 | 23 36 | 23 32 | 23 30 |
| 56   | 25 56 | 25 50 | 25 44 | 25 38 | 25 33 | 25 28 | 25 24 | 25 21 | 25 19 |
| 60   | 27 47 | 27 41 | 27 34 | 27 28 | 27 22 | 27 17 | 27 13 | 27 9  | 27 7  |
| 64   | 29 38 | 29 31 | 29 24 | 29 18 | 29 12 | 29 7  | 29 2  | 28 58 | 28 56 |
| 68   | 31 29 | 31 22 | 31 14 | 31 7  | 31 1  | 30 56 | 30 51 | 30 47 | 30 44 |
| 72   | 33 20 | 33 12 | 33 4  | 32 57 | 32 51 | 32 45 | 32 40 | 32 36 | 32 33 |
| 76   | 35 11 | 35 3  | 34 55 | 34 47 | 34 40 | 34 34 | 34 28 | 34 24 | 34 21 |
| 80   | 37 2  | 36 54 | 36 45 | 36 37 | 36 30 | 36 23 | 36 17 | 36 13 | 36 10 |
| 84   | 38 53 | 38 44 | 38 35 | 38 27 | 38 19 | 38 12 | 38 6  | 38 1  | 37 58 |
| 88   | 40 45 | 40 36 | 40 26 | 40 17 | 40 9  | 40 1  | 39 55 | 39 50 | 39 47 |
| 92   | 42 36 | 42 26 | 42 16 | 42 0  | 41 58 | 41 50 | 41 44 | 41 38 | 41 35 |
| 96   | 44 27 | 44 17 | 44 6  | 43 56 | 43 47 | 43 39 | 43 32 | 43 27 | 43 24 |
| 100  | 46 18 | 46 7  | 45 50 | 45 46 | 45 37 | 45 28 | 45 21 | 45 15 | 45 12 |



# Ac Tab. Secundorum Mobilium.

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## Tabula Aequationis veri loci Solis.

| +  |       |
|----|-------|
| 10 | 20    |
| &  |       |
| "  | "     |
| 49 | 1 49  |
| 38 | 3 37  |
| 27 | 5 26  |
| 15 | 7 14  |
| 4  | 9 3   |
| 52 | 10 51 |
| 41 | 12 40 |
| 29 | 14 28 |
| 18 | 16 17 |
| 7  | 18 5  |
| 55 | 19 53 |
| 44 | 21 42 |
| 32 | 23 30 |
| 21 | 25 19 |
| 9  | 27 7  |
| 58 | 28 56 |
| 47 | 30 44 |
| 36 | 32 33 |
| 24 | 34 21 |
| 13 | 36 10 |
| 1  | 37 58 |
| 50 | 39 47 |
| 38 | 41 35 |
| 27 | 43 24 |
| 15 | 45 12 |

| p  |       |       | m     |       |       | X     |       |       |
|--|-------|-------|-------|-------|-------|-------|-------|-------|
| 0  | 10    | 20    | 0     | 10    | 20    | 0     | 10    | 20    |
| Aequatio veri loci Solis addenda post radicem, & subtrahenda ante. |       |       |       |       |       |       |       |       |
| "  | "     | "     | "     | "     | "     | "     | "     | "     |
| 4  | 1 49  | 1 49  | 1 49  | 1 49  | 1 49  | 1 49  | 1 50  | 1 50  |
| 8  | 3 37  | 3 37  | 3 37  | 3 37  | 3 38  | 3 39  | 3 40  | 3 40  |
| 12   | 5 26  | 5 26  | 5 26  | 5 26  | 5 27  | 5 28  | 5 29  | 5 30  |
| 16   | 7 14  | 7 14  | 7 14  | 7 15  | 7 16  | 7 18  | 7 19  | 7 20  |
| 20   | 9 2   | 9 2   | 9 2   | 9 3   | 9 4   | 9 5   | 9 7   | 9 10  |
| 24   | 10 51 | 10 51 | 10 51 | 10 52 | 10 53 | 10 54 | 10 56 | 11 0  |
| 28   | 12 39 | 12 39 | 12 40 | 12 41 | 12 42 | 12 44 | 12 46 | 12 51 |
| 32   | 14 27 | 14 27 | 14 28 | 14 29 | 14 31 | 14 33 | 14 35 | 14 41 |
| 36   | 16 16 | 16 16 | 16 17 | 16 18 | 16 20 | 16 22 | 16 25 | 16 31 |
| 40   | 18 4  | 18 4  | 18 5  | 18 6  | 18 8  | 18 11 | 18 14 | 18 21 |
| 44   | 19 52 | 19 52 | 19 53 | 19 55 | 19 57 | 20 0  | 20 4  | 20 11 |
| 48   | 21 41 | 21 41 | 21 42 | 21 43 | 21 46 | 21 49 | 21 53 | 22 1  |
| 52   | 23 29 | 23 29 | 23 30 | 23 32 | 23 35 | 23 39 | 23 43 | 23 52 |
| 56   | 25 17 | 25 17 | 25 19 | 25 21 | 25 24 | 25 28 | 25 32 | 25 42 |
| 60   | 27 6  | 27 6  | 27 7  | 27 9  | 27 13 | 27 17 | 27 22 | 27 32 |
| 64   | 28 54 | 28 54 | 28 55 | 28 58 | 29 2  | 29 6  | 29 11 | 29 22 |
| 68   | 30 43 | 30 43 | 30 44 | 30 46 | 30 50 | 30 55 | 31 0  | 31 12 |
| 72   | 32 31 | 32 31 | 32 33 | 32 35 | 32 39 | 32 44 | 32 50 | 33 3  |
| 76   | 34 20 | 34 20 | 34 21 | 34 23 | 34 27 | 34 33 | 34 39 | 34 53 |
| 80   | 36 8  | 36 8  | 36 10 | 36 12 | 36 16 | 36 22 | 36 29 | 36 43 |
| 84   | 37 56 | 37 56 | 37 58 | 38 1  | 38 5  | 38 11 | 38 18 | 38 33 |
| 88   | 39 45 | 39 45 | 39 47 | 39 49 | 39 54 | 40 1  | 40 8  | 40 23 |
| 92   | 41 33 | 41 33 | 41 35 | 41 38 | 41 43 | 41 50 | 41 57 | 42 5  |
| 96   | 43 22 | 43 22 | 43 24 | 43 26 | 43 32 | 43 39 | 43 47 | 44 4  |
| 100  | 45 10 | 45 10 | 45 12 | 45 15 | 45 21 | 45 28 | 45 36 | 45 54 |

E 4





T A B V L A E  
A E Q V A B I L I V M,  
S E V M E D I O R V M

Motuum & Aequationum Lunæ,

*Secundum Hypothesēs ac Observationes*

CLARISS. VIRI TYCHONIS BRAHE

In nouam hanc formam

A IO. ANTONIO MAGINO PATAVINO

R E D A C T A E

*Ad Meridianum Inclytæ Venetiarum Urbis.*

Supplementum Ephemeridum,  
Radices Tychonica Aequalium motuum Luna

| Anni   | Longitudo ☾ ab<br>Aequinoctio. |    |    |    |     | Anomalía, seu Ar-<br>gumentum ☾. |    |    |    |     | Nodus Bo-<br>reus, seu ☊ |    |    |    |
|--------|--------------------------------|----|----|----|-----|----------------------------------|----|----|----|-----|--------------------------|----|----|----|
|        | S                              | P  | i  | ii | iii | S                                | P  | i  | ii | iii | S                        | P  | i  | ii |
| B 1500 | 1                              | 29 | 5  | 41 | 38  | 9                                | 28 | 49 | 17 | 47  | 1                        | 25 | 38 | 14 |
| 1501   | 6                              | 8  | 28 | 44 | 56  | 0                                | 27 | 32 | 25 | 33  | 1                        | 6  | 11 | 32 |
| 1502   | 10                             | 17 | 51 | 48 | 15  | 3                                | 26 | 15 | 33 | 19  | 0                        | 16 | 58 | 50 |
| 1503   | 2                              | 27 | 14 | 51 | 34  | 6                                | 24 | 58 | 41 | 4   | 11                       | 27 | 39 | 8  |
| B 1504 | 7                              | 19 | 48 | 29 | 54  | 10                               | 6  | 45 | 42 | 47  | 11                       | 8  | 16 | 15 |
| 1505   | 11                             | 29 | 11 | 33 | 14  | 1                                | 5  | 28 | 50 | 33  | 10                       | 18 | 56 | 33 |
| 1506   | 4                              | 8  | 34 | 36 | 33  | 4                                | 4  | 11 | 58 | 19  | 9                        | 29 | 36 | 51 |
| 1507   | 8                              | 17 | 57 | 39 | 52  | 7                                | 2  | 55 | 6  | 4   | 9                        | 10 | 17 | 9  |
| B 1508 | 1                              | 10 | 31 | 18 | 12  | 10                               | 14 | 42 | 7  | 47  | 8                        | 20 | 54 | 16 |
| 1509   | 5                              | 19 | 54 | 21 | 31  | 1                                | 13 | 25 | 15 | 33  | 8                        | 1  | 34 | 34 |
| 1510   | 9                              | 29 | 17 | 24 | 50  | 4                                | 12 | 8  | 23 | 19  | 7                        | 12 | 14 | 51 |
| 1511   | 2                              | 8  | 40 | 28 | 9   | 7                                | 10 | 51 | 31 | 4   | 6                        | 22 | 55 | 9  |
| B 1512 | 7                              | 1  | 14 | 6  | 29  | 10                               | 22 | 38 | 32 | 47  | 6                        | 3  | 32 | 17 |
| 1513   | 11                             | 10 | 34 | 9  | 48  | 1                                | 21 | 21 | 40 | 33  | 5                        | 14 | 12 | 34 |
| 1514   | 3                              | 20 | 0  | 13 | 7   | 4                                | 20 | 4  | 48 | 19  | 4                        | 24 | 52 | 52 |
| 1515   | 7                              | 29 | 23 | 16 | 26  | 7                                | 18 | 47 | 56 | 4   | 4                        | 5  | 33 | 10 |
| B 1516 | 0                              | 21 | 56 | 54 | 47  | 11                               | 0  | 34 | 57 | 46  | 3                        | 16 | 10 | 17 |
| 1517   | 5                              | 1  | 19 | 58 | 6   | 1                                | 29 | 18 | 5  | 32  | 2                        | 26 | 50 | 35 |
| 1518   | 9                              | 10 | 43 | 1  | 25  | 4                                | 28 | 1  | 13 | 19  | 2                        | 7  | 30 | 53 |
| 1519   | 1                              | 20 | 6  | 4  | 44  | 7                                | 26 | 44 | 21 | 4   | 1                        | 18 | 11 | 11 |
| B 1520 | 6                              | 12 | 39 | 43 | 4   | 11                               | 8  | 31 | 22 | 46  | 0                        | 28 | 48 | 18 |
| 1521   | 10                             | 22 | 2  | 46 | 23  | 2                                | 7  | 14 | 30 | 32  | 0                        | 9  | 28 | 36 |
| 1522   | 3                              | 1  | 25 | 49 | 42  | 5                                | 5  | 57 | 38 | 19  | 11                       | 20 | 8  | 54 |
| 1523   | 7                              | 10 | 48 | 53 | 1   | 8                                | 4  | 40 | 46 | 4   | 11                       | 0  | 49 | 12 |
| B 1524 | 0                              | 3  | 22 | 31 | 21  | 11                               | 16 | 27 | 47 | 46  | 10                       | 11 | 26 | 19 |
| 1525   | 4                              | 12 | 45 | 34 | 40  | 2                                | 15 | 10 | 55 | 32  | 9                        | 22 | 6  | 37 |
| 1526   | 8                              | 22 | 8  | 37 | 59  | 5                                | 13 | 54 | 3  | 18  | 9                        | 2  | 46 | 55 |
| 1527   | 1                              | 1  | 31 | 41 | 18  | 8                                | 12 | 37 | 11 | 3   | 8                        | 13 | 27 | 13 |
| B 1528 | 5                              | 24 | 5  | 19 | 38  | 11                               | 24 | 24 | 12 | 46  | 7                        | 24 | 4  | 20 |
| 1529   | 10                             | 3  | 28 | 22 | 57  | 2                                | 23 | 7  | 20 | 32  | 7                        | 4  | 44 | 38 |
| 1530   | 2                              | 12 | 51 | 26 | 16  | 5                                | 21 | 50 | 28 | 18  | 6                        | 15 | 24 | 56 |
| 1531   | 6                              | 22 | 14 | 29 | 35  | 8                                | 20 | 33 | 36 | 3   | 5                        | 26 | 5  | 14 |
| B 1532 | 11                             | 14 | 48 | 7  | 56  | 0                                | 2  | 20 | 37 | 46  | 5                        | 6  | 42 | 21 |
| 1533   | 3                              | 24 | 11 | 11 | 15  | 3                                | 1  | 3  | 45 | 32  | 4                        | 17 | 22 | 39 |



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Nodus Bo-  
reus, seu ☊

| S  | P  | i  | n  |
|----|----|----|----|
| 1  | 25 | 38 | 14 |
| 6  | 11 | 32 |    |
| 16 | 58 | 50 |    |
| 27 | 39 | 8  |    |
| 8  | 16 | 15 |    |
| 18 | 56 | 33 |    |
| 29 | 36 | 51 |    |
| 10 | 17 | 9  |    |
| 20 | 54 | 16 |    |
| 1  | 34 | 34 |    |
| 12 | 14 | 51 |    |
| 22 | 55 | 9  |    |
| 3  | 32 | 17 |    |
| 14 | 12 | 34 |    |
| 24 | 52 | 52 |    |
| 5  | 33 | 10 |    |
| 16 | 10 | 17 |    |
| 26 | 50 | 35 |    |
| 7  | 30 | 53 |    |
| 18 | 11 | 11 |    |
| 28 | 48 | 18 |    |
| 9  | 28 | 36 |    |
| 20 | 8  | 54 |    |
| 0  | 49 | 12 |    |
| 11 | 26 | 19 |    |
| 22 | 6  | 37 |    |
| 2  | 46 | 55 |    |
| 13 | 27 | 13 |    |
| 24 | 4  | 20 |    |
| 4  | 44 | 38 |    |
| 15 | 24 | 56 |    |
| 26 | 5  | 14 |    |
| 6  | 42 | 21 |    |
| 17 | 22 | 39 |    |

| Anni   | Longitudo ☉ ab<br>Aequinoctio. |    |    |    |    | Anomalia, seu Ar-<br>gumentum ☉. |    |    |    |    | Nodus Bo-<br>reus, seu ☊ |    |    |    |
|--------|--------------------------------|----|----|----|----|----------------------------------|----|----|----|----|--------------------------|----|----|----|
|        | S                              | P  | i  | n  | m  | S                                | P  | i  | n  | m  | S                        | P  | i  | n  |
| 1534   | 8                              | 3  | 34 | 14 | 34 | 5                                | 29 | 46 | 53 | 18 | 3                        | 28 | 2  | 56 |
| 1535   | 0                              | 12 | 57 | 17 | 53 | 8                                | 28 | 30 | 1  | 3  | 3                        | 8  | 43 | 14 |
| B 1536 | 5                              | 5  | 30 | 56 | 13 | 0                                | 10 | 17 | 2  | 46 | 2                        | 19 | 20 | 22 |
| 1537   | 9                              | 14 | 53 | 59 | 32 | 3                                | 9  | 0  | 10 | 32 | 2                        | 0  | 0  | 39 |
| 1538   | 1                              | 24 | 17 | 2  | 51 | 6                                | 7  | 43 | 18 | 18 | 1                        | 10 | 40 | 57 |
| 1539   | 6                              | 3  | 40 | 6  | 10 | 9                                | 6  | 26 | 26 | 3  | 0                        | 21 | 21 | 15 |
| B 1540 | 10                             | 20 | 13 | 44 | 30 | 0                                | 18 | 13 | 27 | 46 | 0                        | 1  | 58 | 22 |
| 1541   | 3                              | 5  | 36 | 47 | 49 | 3                                | 16 | 56 | 35 | 32 | 11                       | 12 | 38 | 40 |
| 1542   | 7                              | 14 | 59 | 51 | 8  | 6                                | 15 | 39 | 43 | 18 | 10                       | 23 | 18 | 58 |
| 1543   | 11                             | 24 | 22 | 54 | 27 | 9                                | 14 | 22 | 51 | 3  | 10                       | 3  | 59 | 16 |
| B 1544 | 4                              | 16 | 56 | 32 | 47 | 0                                | 26 | 9  | 52 | 46 | 9                        | 14 | 36 | 23 |
| 1545   | 8                              | 26 | 19 | 36 | 6  | 3                                | 24 | 53 | 0  | 32 | 8                        | 25 | 16 | 41 |
| 1546   | 1                              | 5  | 42 | 39 | 25 | 6                                | 23 | 36 | 8  | 18 | 8                        | 5  | 56 | 59 |
| 1547   | 5                              | 15 | 5  | 42 | 44 | 9                                | 22 | 19 | 16 | 3  | 7                        | 16 | 37 | 17 |
| B 1548 | 10                             | 7  | 39 | 21 | 5  | 1                                | 4  | 6  | 17 | 46 | 6                        | 27 | 14 | 24 |
| 1549   | 2                              | 17 | 2  | 24 | 24 | 4                                | 2  | 49 | 25 | 32 | 6                        | 7  | 54 | 42 |
| 1550   | 6                              | 26 | 25 | 27 | 42 | 7                                | 1  | 32 | 33 | 18 | 5                        | 18 | 55 | 0  |
| 1551   | 11                             | 5  | 48 | 31 | 1  | 10                               | 0  | 15 | 41 | 3  | 4                        | 29 | 15 | 18 |
| B 1552 | 3                              | 28 | 22 | 9  | 22 | 1                                | 12 | 2  | 42 | 46 | 4                        | 9  | 52 | 25 |
| 1553   | 8                              | 7  | 45 | 12 | 41 | 4                                | 10 | 45 | 50 | 32 | 3                        | 20 | 32 | 43 |
| 1554   | 0                              | 17 | 8  | 16 | 0  | 7                                | 9  | 28 | 58 | 18 | 3                        | 1  | 13 | 1  |
| 1555   | 4                              | 26 | 31 | 19 | 19 | 10                               | 8  | 12 | 6  | 3  | 2                        | 11 | 53 | 19 |
| B 1556 | 9                              | 19 | 4  | 57 | 39 | 1                                | 19 | 59 | 7  | 46 | 1                        | 22 | 30 | 26 |
| 1557   | 1                              | 28 | 28 | 0  | 58 | 4                                | 18 | 42 | 15 | 32 | 1                        | 3  | 10 | 44 |
| 1558   | 6                              | 7  | 51 | 4  | 17 | 7                                | 17 | 25 | 23 | 18 | 0                        | 13 | 51 | 2  |
| 1559   | 10                             | 17 | 14 | 7  | 36 | 10                               | 16 | 8  | 31 | 3  | 11                       | 24 | 31 | 19 |
| B 1560 | 3                              | 9  | 47 | 45 | 56 | 1                                | 27 | 55 | 32 | 46 | 11                       | 5  | 8  | 27 |
| 1561   | 7                              | 19 | 10 | 49 | 15 | 4                                | 26 | 38 | 40 | 32 | 10                       | 15 | 48 | 44 |
| 1562   | 11                             | 28 | 33 | 52 | 34 | 7                                | 25 | 21 | 48 | 18 | 9                        | 26 | 29 | 2  |
| 1563   | 4                              | 7  | 56 | 55 | 53 | 10                               | 24 | 4  | 56 | 3  | 9                        | 7  | 9  | 20 |
| B 1564 | 9                              | 0  | 30 | 34 | 13 | 2                                | 5  | 51 | 57 | 46 | 8                        | 17 | 46 | 27 |
| 1565   | 1                              | 9  | 53 | 37 | 32 | 5                                | 4  | 35 | 5  | 32 | 7                        | 28 | 26 | 45 |
| 1566   | 5                              | 19 | 16 | 40 | 51 | 8                                | 3  | 18 | 13 | 18 | 7                        | 9  | 7  | 3  |
| 1567   | 9                              | 28 | 39 | 44 | 10 | 11                               | 2  | 1  | 21 | 3  | 6                        | 19 | 47 | 21 |

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Radices Tyconica Mediorum motuum Lunæ

| Anni   | Longitudo ☉ ab<br>Aequinoctio. |    |    |    |     | Anomalia, seu Ar<br>gumentum ☉. |    |    |    |     | Nodus Bo-<br>reus, seu ☊ |    |    |    |
|--------|--------------------------------|----|----|----|-----|---------------------------------|----|----|----|-----|--------------------------|----|----|----|
|        | S                              | P  | I  | II | III | S                               | P  | I  | II | III | S                        | P  | I  | II |
| B 1568 | 2                              | 21 | 13 | 22 | 31  | 2                               | 13 | 48 | 22 | 46  | 6                        | 0  | 24 | 28 |
| 1569   | 7                              | 0  | 36 | 25 | 50  | 5                               | 12 | 31 | 30 | 32  | 5                        | 11 | 4  | 46 |
| 1570   | 11                             | 9  | 59 | 39 | 9   | 8                               | 11 | 14 | 38 | 18  | 4                        | 21 | 45 | 4  |
| 1571   | 3                              | 19 | 22 | 32 | 28  | 11                              | 9  | 57 | 46 | 3   | 4                        | 2  | 25 | 22 |
| B 1572 | 8                              | 11 | 56 | 10 | 48  | 2                               | 21 | 44 | 47 | 46  | 3                        | 13 | 2  | 29 |
| 1573   | 0                              | 21 | 19 | 14 | 7   | 5                               | 20 | 27 | 55 | 32  | 2                        | 23 | 42 | 47 |
| 1574   | 5                              | 0  | 42 | 17 | 26  | 8                               | 19 | 11 | 3  | 18  | 2                        | 4  | 23 | 5  |
| 1575   | 9                              | 10 | 5  | 20 | 45  | 11                              | 17 | 54 | 11 | 3   | 1                        | 15 | 3  | 23 |
| B 1576 | 2                              | 2  | 36 | 59 | 5   | 2                               | 29 | 41 | 12 | 46  | 0                        | 25 | 40 | 30 |
| 1577   | 6                              | 12 | 2  | 2  | 24  | 5                               | 28 | 24 | 20 | 32  | 0                        | 6  | 20 | 48 |
| 1578   | 10                             | 21 | 25 | 5  | 43  | 8                               | 27 | 7  | 28 | 18  | 11                       | 17 | 1  | 6  |
| 1579   | 3                              | 0  | 48 | 9  | 2   | 11                              | 25 | 50 | 36 | 3   | 10                       | 27 | 41 | 23 |
| B 1580 | 7                              | 23 | 21 | 47 | 22  | 3                               | 7  | 37 | 37 | 46  | 10                       | 8  | 18 | 31 |
| 1581   | 0                              | 2  | 44 | 50 | 41  | 6                               | 6  | 20 | 45 | 32  | 9                        | 18 | 58 | 49 |
| 1582   | 0                              | 0  | 22 | 3  | 47  | 4                               | 24 | 24 | 52 | 54  | 8                        | 29 | 39 | 6  |

Radices Aequalium motuum Lunæ in annis Gregorianis.

|        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 1583   | 4  | 9  | 45 | 7  | 6  | 7  | 23 | 8  | 0  | 40 | 8  | 10 | 51 | 11 |
| B 1584 | 9  | 2  | 18 | 45 | 26 | 11 | 4  | 55 | 2  | 22 | 7  | 21 | 28 | 18 |
| 1585   | 1  | 11 | 41 | 48 | 45 | 2  | 3  | 38 | 10 | 8  | 7  | 2  | 8  | 36 |
| 1586   | 5  | 21 | 4  | 52 | 4  | 5  | 2  | 21 | 17 | 54 | 6  | 12 | 48 | 54 |
| 1587   | 10 | 0  | 27 | 55 | 23 | 8  | 1  | 4  | 25 | 40 | 5  | 23 | 29 | 12 |
| B 1588 | 2  | 23 | 1  | 33 | 43 | 11 | 12 | 51 | 27 | 22 | 5  | 4  | 6  | 19 |
| 1589   | 7  | 2  | 24 | 37 | 2  | 2  | 11 | 34 | 35 | 8  | 4  | 14 | 46 | 37 |
| 1590   | 11 | 11 | 47 | 40 | 21 | 5  | 10 | 17 | 42 | 54 | 3  | 25 | 26 | 55 |
| 1591   | 3  | 21 | 10 | 43 | 40 | 8  | 9  | 0  | 50 | 40 | 3  | 6  | 7  | 12 |
| B 1592 | 8  | 13 | 44 | 22 | 0  | 11 | 20 | 47 | 52 | 22 | 2  | 16 | 44 | 20 |
| 1593   | 0  | 23 | 7  | 25 | 19 | 2  | 19 | 31 | 0  | 8  | 1  | 27 | 24 | 37 |
| 1594   | 5  | 2  | 30 | 28 | 38 | 5  | 18 | 14 | 7  | 54 | 1  | 8  | 4  | 55 |
| 1595   | 9  | 11 | 53 | 31 | 57 | 8  | 16 | 57 | 15 | 40 | 0  | 18 | 45 | 13 |
| B 1596 | 2  | 4  | 27 | 10 | 18 | 11 | 28 | 44 | 17 | 22 | 11 | 29 | 22 | 20 |
| 1597   | 6  | 13 | 50 | 13 | 37 | 2  | 27 | 27 | 25 | 8  | 11 | 10 | 2  | 38 |
| 1598   | 10 | 23 | 13 | 16 | 56 | 5  | 26 | 10 | 32 | 54 | 10 | 20 | 42 | 56 |
| 1599   | 3  | 2  | 36 | 20 | 15 | 8  | 24 | 53 | 40 | 40 | 10 | 1  | 23 | 14 |



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reus, seu ☊

| P  | i  | '' |
|----|----|----|
| 0  | 24 | 28 |
| 11 | 4  | 46 |
| 21 | 45 | 4  |
| 2  | 25 | 22 |
| 13 | 2  | 29 |
| 23 | 42 | 47 |
| 4  | 23 | 5  |
| 15 | 3  | 23 |
| 25 | 40 | 30 |
| 6  | 20 | 48 |
| 17 | 1  | 6  |
| 27 | 41 | 23 |
| 8  | 18 | 31 |
| 18 | 58 | 49 |
| 29 | 39 | 6  |

| P  | i  | '' |
|----|----|----|
| 10 | 51 | 11 |
| 21 | 28 | 18 |
| 2  | 8  | 36 |
| 12 | 48 | 54 |
| 23 | 29 | 12 |
| 4  | 6  | 19 |
| 14 | 46 | 37 |
| 25 | 26 | 55 |
| 6  | 7  | 12 |
| 16 | 44 | 20 |
| 27 | 24 | 37 |
| 8  | 4  | 55 |
| 18 | 45 | 13 |
| 29 | 22 | 20 |
| 10 | 2  | 38 |
| 20 | 42 | 56 |
| 1  | 23 | 14 |

| Anni   | Longitudo ☊ ab<br>Acquinoctio. |    |    |    |     | Anomalia, seu Ar-<br>gumentum ☊. |    |    |    |     | Nodus Bo-<br>reus, seu ☊ |    |    |    |
|--------|--------------------------------|----|----|----|-----|----------------------------------|----|----|----|-----|--------------------------|----|----|----|
|        | S                              | P  | i  | '' | ''' | S                                | P  | i  | '' | ''' | S                        | P  | i  | '' |
| B 1600 | 7                              | 25 | 9  | 58 | 35  | 0                                | 6  | 40 | 42 | 22  | 9                        | 12 | 0  | 21 |
| 1601   | 0                              | 4  | 33 | 1  | 54  | 3                                | 5  | 23 | 50 | 8   | 8                        | 22 | 40 | 39 |
| 1602   | 4                              | 13 | 56 | 5  | 13  | 6                                | 4  | 6  | 57 | 54  | 8                        | 3  | 20 | 57 |
| 1603   | 8                              | 23 | 19 | 8  | 32  | 9                                | 2  | 50 | 5  | 40  | 7                        | 14 | 1  | 15 |
| B 1604 | 1                              | 15 | 52 | 46 | 52  | 0                                | 14 | 37 | 7  | 22  | 6                        | 24 | 38 | 22 |
| 1605   | 5                              | 25 | 15 | 50 | 11  | 3                                | 13 | 20 | 15 | 8   | 6                        | 5  | 18 | 40 |
| 1606   | 10                             | 4  | 38 | 53 | 30  | 6                                | 12 | 3  | 22 | 54  | 5                        | 15 | 58 | 58 |
| 1607   | 2                              | 14 | 1  | 56 | 49  | 9                                | 10 | 46 | 30 | 40  | 4                        | 26 | 39 | 16 |
| B 1608 | 7                              | 6  | 35 | 35 | 9   | 0                                | 22 | 33 | 32 | 22  | 4                        | 17 | 16 | 23 |
| 1609   | 11                             | 15 | 58 | 38 | 28  | 3                                | 21 | 16 | 40 | 8   | 3                        | 7  | 56 | 41 |
| 1610   | 3                              | 25 | 21 | 41 | 47  | 6                                | 19 | 59 | 47 | 54  | 2                        | 28 | 36 | 59 |
| 1611   | 8                              | 4  | 44 | 45 | 6   | 9                                | 18 | 42 | 55 | 40  | 2                        | 9  | 17 | 17 |
| B 1612 | 0                              | 27 | 18 | 23 | 27  | 1                                | 0  | 29 | 57 | 22  | 1                        | 19 | 54 | 24 |
| 1613   | 5                              | 6  | 41 | 26 | 46  | 3                                | 29 | 13 | 5  | 8   | 1                        | 0  | 34 | 42 |
| 1614   | 9                              | 16 | 4  | 30 | 5   | 6                                | 27 | 56 | 12 | 54  | 0                        | 11 | 14 | 59 |
| 1615   | 1                              | 25 | 27 | 33 | 24  | 9                                | 26 | 39 | 20 | 40  | 11                       | 21 | 55 | 17 |
| B 1616 | 6                              | 18 | 1  | 11 | 44  | 1                                | 8  | 26 | 22 | 22  | 11                       | 2  | 32 | 25 |
| 1617   | 10                             | 27 | 24 | 15 | 3   | 4                                | 7  | 9  | 30 | 8   | 10                       | 13 | 12 | 42 |
| 1618   | 3                              | 6  | 47 | 18 | 22  | 7                                | 5  | 52 | 37 | 54  | 9                        | 23 | 53 | 0  |
| 1619   | 7                              | 16 | 10 | 21 | 41  | 10                               | 4  | 35 | 45 | 40  | 9                        | 4  | 33 | 18 |
| B 1620 | 0                              | 8  | 44 | 0  | 1   | 1                                | 16 | 22 | 47 | 22  | 8                        | 15 | 10 | 25 |
| 1621   | 4                              | 18 | 7  | 3  | 20  | 4                                | 15 | 5  | 55 | 8   | 7                        | 25 | 50 | 43 |
| 1622   | 8                              | 27 | 30 | 6  | 39  | 7                                | 13 | 49 | 2  | 53  | 7                        | 6  | 31 | 1  |
| 1623   | 1                              | 6  | 53 | 9  | 58  | 10                               | 12 | 32 | 10 | 39  | 6                        | 17 | 11 | 19 |
| B 1624 | 5                              | 29 | 26 | 48 | 18  | 1                                | 24 | 19 | 12 | 22  | 5                        | 27 | 48 | 26 |
| 1625   | 10                             | 8  | 49 | 51 | 37  | 4                                | 23 | 2  | 20 | 8   | 5                        | 8  | 28 | 44 |
| 1626   | 2                              | 18 | 12 | 54 | 56  | 7                                | 21 | 45 | 27 | 53  | 4                        | 19 | 9  | 2  |
| 1627   | 6                              | 27 | 35 | 58 | 15  | 10                               | 20 | 28 | 35 | 39  | 3                        | 29 | 49 | 19 |
| B 1628 | 11                             | 20 | 9  | 30 | 30  | 2                                | 2  | 15 | 37 | 22  | 3                        | 10 | 26 | 27 |
| 1629   | 3                              | 29 | 32 | 39 | 55  | 5                                | 0  | 58 | 45 | 8   | 2                        | 21 | 6  | 45 |
| 1630   | 8                              | 8  | 55 | 43 | 13  | 7                                | 29 | 41 | 52 | 53  | 2                        | 1  | 47 | 3  |
| 1631   | 0                              | 18 | 18 | 46 | 32  | 10                               | 28 | 25 | 0  | 39  | 1                        | 12 | 27 | 21 |
| B 1632 | 5                              | 10 | 52 | 24 | 53  | 2                                | 10 | 12 | 2  | 22  | 0                        | 23 | 4  | 28 |
| 1633   | 9                              | 20 | 15 | 28 | 12  | 5                                | 8  | 55 | 10 | 8   | 0                        | 3  | 44 | 46 |

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Radices Tychonica Aequalium motuum Lune

| Anni   | Longitudo ☉ ab<br>Aequinoctio. |    |    |    |    | Anomalia, seu Ar<br>gumentum ☉. |    |    |    |    | Nodus Bo-<br>reus, seu ☊ |    |    |    |
|--------|--------------------------------|----|----|----|----|---------------------------------|----|----|----|----|--------------------------|----|----|----|
|        | S                              | P  | i  | u  | m  | S                               | P  | i  | u  | m  | S                        | P  | i  | u  |
| 1634   | 1                              | 29 | 38 | 31 | 31 | 8                               | 7  | 38 | 17 | 53 | 11                       | 14 | 25 | 4  |
| 1635   | 6                              | 9  | 1  | 34 | 50 | 11                              | 6  | 21 | 25 | 39 | 10                       | 25 | 5  | 22 |
| B 1636 | 11                             | 1  | 35 | 13 | 10 | 2                               | 18 | 8  | 27 | 22 | 10                       | 5  | 42 | 29 |
| 1637   | 3                              | 10 | 58 | 16 | 29 | 5                               | 16 | 51 | 35 | 7  | 9                        | 16 | 22 | 47 |
| 1638   | 7                              | 20 | 21 | 19 | 48 | 8                               | 15 | 34 | 42 | 53 | 8                        | 27 | 3  | 5  |
| 1639   | 11                             | 29 | 44 | 23 | 7  | 11                              | 14 | 17 | 50 | 39 | 8                        | 7  | 43 | 22 |
| B 1640 | 4                              | 22 | 18 | 1  | 27 | 2                               | 26 | 4  | 52 | 22 | 7                        | 18 | 20 | 30 |
| 1641   | 9                              | 1  | 41 | 4  | 46 | 5                               | 24 | 48 | 0  | 7  | 6                        | 29 | 0  | 47 |
| 1642   | 1                              | 11 | 4  | 8  | 5  | 8                               | 23 | 31 | 7  | 53 | 6                        | 19 | 41 | 5  |
| 1643   | 5                              | 20 | 27 | 11 | 24 | 11                              | 22 | 14 | 15 | 39 | 5                        | 20 | 31 | 23 |
| B 1644 | 10                             | 13 | 0  | 49 | 44 | 3                               | 4  | 1  | 17 | 22 | 5                        | 0  | 58 | 30 |
| 1645   | 2                              | 22 | 23 | 53 | 3  | 6                               | 2  | 44 | 25 | 7  | 4                        | 11 | 38 | 48 |
| 1646   | 7                              | 1  | 46 | 56 | 22 | 9                               | 1  | 27 | 32 | 53 | 3                        | 22 | 19 | 6  |
| 1647   | 11                             | 11 | 9  | 59 | 41 | 0                               | 0  | 10 | 40 | 39 | 3                        | 2  | 59 | 24 |
| B 1648 | 4                              | 3  | 43 | 38 | 2  | 3                               | 11 | 57 | 42 | 22 | 2                        | 13 | 36 | 31 |
| 1649   | 8                              | 13 | 6  | 41 | 21 | 6                               | 10 | 40 | 50 | 7  | 1                        | 24 | 16 | 49 |
| 1650   | 0                              | 22 | 29 | 44 | 40 | 9                               | 9  | 23 | 57 | 53 | 1                        | 4  | 57 | 7  |
| 1651   | 5                              | 1  | 52 | 47 | 59 | 0                               | 8  | 7  | 15 | 39 | 0                        | 15 | 37 | 25 |
| B 1652 | 9                              | 24 | 26 | 26 | 19 | 3                               | 19 | 54 | 7  | 21 | 11                       | 26 | 14 | 32 |
| 1653   | 2                              | 3  | 49 | 29 | 38 | 6                               | 18 | 37 | 15 | 7  | 11                       | 6  | 54 | 50 |
| 1654   | 6                              | 13 | 12 | 32 | 57 | 9                               | 17 | 20 | 22 | 53 | 10                       | 17 | 35 | 8  |
| 1655   | 10                             | 22 | 35 | 36 | 16 | 10                              | 16 | 3  | 30 | 39 | 10                       | 28 | 15 | 26 |
| B 1656 | 3                              | 15 | 9  | 14 | 36 | 3                               | 27 | 50 | 32 | 21 | 9                        | 8  | 52 | 33 |
| 1657   | 7                              | 24 | 32 | 17 | 55 | 6                               | 26 | 33 | 40 | 7  | 8                        | 19 | 32 | 51 |
| 1658   | 0                              | 3  | 55 | 21 | 14 | 9                               | 25 | 16 | 47 | 53 | 8                        | 0  | 13 | 9  |
| 1659   | 4                              | 13 | 18 | 24 | 33 | 0                               | 23 | 59 | 55 | 39 | 7                        | 10 | 53 | 27 |
| B 1660 | 9                              | 5  | 52 | 2  | 53 | 4                               | 5  | 46 | 57 | 21 | 6                        | 21 | 30 | 34 |
| 1661   | 1                              | 15 | 15 | 6  | 12 | 7                               | 4  | 30 | 5  | 7  | 6                        | 2  | 10 | 52 |
| 1662   | 5                              | 24 | 38 | 9  | 31 | 10                              | 3  | 13 | 12 | 53 | 5                        | 12 | 51 | 9  |
| 1663   | 10                             | 4  | 1  | 12 | 50 | 1                               | 1  | 56 | 20 | 39 | 4                        | 23 | 31 | 27 |
| B 1664 | 2                              | 26 | 34 | 51 | 11 | 4                               | 13 | 43 | 22 | 21 | 4                        | 4  | 8  | 35 |
| 1665   | 7                              | 5  | 57 | 54 | 30 | 7                               | 12 | 26 | 30 | 7  | 3                        | 14 | 48 | 52 |
| 1666   | 11                             | 15 | 20 | 57 | 49 | 10                              | 11 | 9  | 37 | 53 | 2                        | 25 | 29 | 10 |
| 1667   | 3                              | 24 | 44 | 1  | 7  | 1                               | 9  | 52 | 45 | 39 | 2                        | 6  | 9  | 38 |



Ac Tab. Secundorum Mobilium.

Ad hos annos singulos.

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| Nodus Bo-<br>reus, seu ♄ |    |    |    |     |
|--------------------------|----|----|----|-----|
| S                        | P  | i  | u  | ''' |
| 11                       | 14 | 25 | 4  |     |
| 10                       | 25 | 5  | 22 |     |
| 10                       | 5  | 42 | 29 |     |
| 9                        | 16 | 22 | 47 |     |
| 8                        | 27 | 3  | 5  |     |
| 8                        | 7  | 43 | 22 |     |
| 7                        | 18 | 20 | 30 |     |
| 6                        | 29 | 0  | 47 |     |
| 6                        | 19 | 41 | 5  |     |
| 5                        | 20 | 21 | 23 |     |
| 5                        | 0  | 58 | 30 |     |
| 4                        | 11 | 38 | 48 |     |
| 3                        | 22 | 19 | 6  |     |
| 3                        | 2  | 59 | 24 |     |
| 2                        | 13 | 36 | 31 |     |
| 1                        | 24 | 16 | 49 |     |
| 1                        | 4  | 57 | 7  |     |
| 0                        | 15 | 37 | 25 |     |
| 11                       | 26 | 14 | 32 |     |
| 11                       | 6  | 54 | 50 |     |
| 10                       | 17 | 35 | 8  |     |
| 10                       | 28 | 15 | 26 |     |
| 9                        | 8  | 52 | 33 |     |
| 8                        | 19 | 32 | 51 |     |
| 8                        | 0  | 13 | 9  |     |
| 7                        | 10 | 53 | 27 |     |
| 6                        | 21 | 30 | 34 |     |
| 6                        | 2  | 10 | 52 |     |
| 5                        | 12 | 51 | 9  |     |
| 4                        | 23 | 31 | 27 |     |
| 4                        | 4  | 8  | 35 |     |
| 3                        | 14 | 48 | 52 |     |
| 2                        | 25 | 29 | 10 |     |
| 2                        | 6  | 9  | 28 |     |

| Anni   | Longitudo ♄ ab<br>Aequinoctio. |    |    |    |     | Anomalia, seu Ar-<br>gumentum ♄. |    |    |    |     | Nodus Bo-<br>reus, seu ♄ |    |    |    |     |
|--------|--------------------------------|----|----|----|-----|----------------------------------|----|----|----|-----|--------------------------|----|----|----|-----|
|        | S                              | P  | i  | u  | ''' | S                                | P  | i  | u  | ''' | S                        | P  | i  | u  | ''' |
| 1667   | 3                              | 24 | 44 | 1  | 7   | 1                                | 9  | 52 | 45 | 39  | 2                        | 6  | 9  | 28 |     |
| B 1668 | 8                              | 17 | 17 | 39 | 28  | 4                                | 21 | 39 | 47 | 21  | 1                        | 16 | 46 | 35 |     |
| 1669   | 0                              | 26 | 40 | 42 | 47  | 7                                | 20 | 22 | 55 | 7   | 0                        | 27 | 26 | 53 |     |
| 1670   | 5                              | 6  | 3  | 46 | 6   | 10                               | 19 | 6  | 2  | 53  | 0                        | 8  | 7  | 11 |     |
| 1671   | 9                              | 15 | 26 | 49 | 25  | 1                                | 17 | 49 | 10 | 39  | 11                       | 18 | 47 | 29 |     |
| B 1672 | 2                              | 8  | 0  | 27 | 45  | 4                                | 29 | 36 | 12 | 21  | 10                       | 29 | 24 | 36 |     |
| 1673   | 6                              | 17 | 23 | 31 | 4   | 7                                | 28 | 19 | 20 | 7   | 10                       | 10 | 4  | 54 |     |
| 1674   | 10                             | 26 | 46 | 34 | 23  | 10                               | 27 | 2  | 27 | 53  | 9                        | 20 | 45 | 12 |     |
| 1675   | 3                              | 6  | 9  | 37 | 42  | 1                                | 25 | 45 | 35 | 39  | 9                        | 1  | 25 | 29 |     |
| B 1676 | 7                              | 28 | 43 | 16 | 2   | 5                                | 7  | 32 | 37 | 21  | 8                        | 12 | 2  | 37 |     |
| 1677   | 0                              | 8  | 6  | 19 | 21  | 8                                | 6  | 15 | 45 | 7   | 7                        | 22 | 42 | 55 |     |
| 1678   | 4                              | 17 | 29 | 22 | 40  | 11                               | 4  | 58 | 52 | 53  | 7                        | 3  | 23 | 13 |     |
| 1679   | 8                              | 26 | 52 | 25 | 59  | 2                                | 3  | 42 | 0  | 39  | 6                        | 14 | 3  | 31 |     |
| B 1680 | 1                              | 19 | 26 | 4  | 20  | 5                                | 15 | 29 | 2  | 21  | 5                        | 24 | 40 | 38 |     |
| 1681   | 5                              | 28 | 49 | 7  | 39  | 8                                | 14 | 12 | 10 | 7   | 5                        | 5  | 20 | 56 |     |
| 1682   | 10                             | 8  | 12 | 10 | 58  | 11                               | 12 | 55 | 17 | 53  | 4                        | 16 | 1  | 14 |     |
| 1683   | 2                              | 17 | 35 | 14 | 16  | 2                                | 11 | 38 | 25 | 39  | 3                        | 26 | 41 | 32 |     |
| B 1684 | 7                              | 10 | 8  | 52 | 37  | 5                                | 23 | 25 | 27 | 21  | 3                        | 7  | 18 | 39 |     |
| 1685   | 11                             | 19 | 31 | 55 | 56  | 8                                | 22 | 8  | 35 | 7   | 2                        | 17 | 58 | 57 |     |
| 1686   | 3                              | 28 | 54 | 59 | 15  | 11                               | 20 | 51 | 42 | 53  | 1                        | 28 | 39 | 15 |     |
| 1687   | 8                              | 8  | 18 | 2  | 34  | 2                                | 19 | 34 | 50 | 39  | 1                        | 9  | 19 | 32 |     |
| B 1688 | 1                              | 0  | 51 | 40 | 54  | 6                                | 1  | 21 | 52 | 21  | 0                        | 19 | 56 | 40 |     |
| 1689   | 5                              | 10 | 14 | 44 | 13  | 9                                | 0  | 5  | 0  | 7   | 0                        | 0  | 36 | 57 |     |
| 1690   | 9                              | 19 | 37 | 47 | 32  | 11                               | 28 | 48 | 7  | 53  | 11                       | 11 | 17 | 15 |     |
| 1691   | 1                              | 29 | 0  | 50 | 51  | 2                                | 27 | 31 | 15 | 39  | 10                       | 21 | 57 | 33 |     |
| B 1692 | 6                              | 21 | 34 | 29 | 11  | 6                                | 9  | 18 | 17 | 21  | 10                       | 2  | 34 | 40 |     |
| 1693   | 11                             | 0  | 57 | 32 | 30  | 9                                | 8  | 1  | 25 | 7   | 9                        | 13 | 14 | 58 |     |
| 1694   | 3                              | 10 | 20 | 35 | 49  | 0                                | 6  | 44 | 32 | 53  | 8                        | 23 | 55 | 34 |     |
| 1695   | 7                              | 19 | 43 | 39 | 8   | 3                                | 5  | 27 | 40 | 39  | 8                        | 4  | 35 | 41 |     |
| B 1696 | 0                              | 12 | 17 | 17 | 29  | 6                                | 17 | 14 | 42 | 21  | 7                        | 15 | 12 | 59 |     |
| 1697   | 4                              | 21 | 40 | 20 | 47  | 9                                | 15 | 57 | 50 | 7   | 6                        | 25 | 52 | 17 |     |
| 1698   | 9                              | 1  | 3  | 24 | 6   | 0                                | 14 | 40 | 57 | 53  | 6                        | 6  | 33 | 35 |     |
| 1699   | 1                              | 10 | 26 | 27 | 25  | 3                                | 13 | 24 | 5  | 39  | 5                        | 17 | 13 | 53 |     |
| B 1700 | 5                              | 19 | 49 | 30 | 44  | 6                                | 12 | 7  | 13 | 21  | 4                        | 27 | 53 | 16 |     |

Supplementum Ephemeridum,  
Tabula mediorum motuum Luna

|      |    | I A N V A R I V S              |    |    |    |     |                                 |    |    |    |     |         |   |    |    |  |
|------|----|--------------------------------|----|----|----|-----|---------------------------------|----|----|----|-----|---------|---|----|----|--|
|      |    | Longitudo ☾ ab<br>Aequinoctio. |    |    |    |     | Anomalia, seu Ar<br>gumentum ☾. |    |    |    |     | Motus ☾ |   |    |    |  |
| Dies |    | S                              | P  | i  | u  | /// | S                               | P  | i  | u  | /// | S       | P | i  | u  |  |
| 1    | 1  | 0                              | 13 | 10 | 35 | 1   | 0                               | 13 | 3  | 53 | 56  | 0       | 0 | 3  | 11 |  |
| 2    | 2  | 0                              | 26 | 21 | 10 | 3   | 0                               | 26 | 7  | 47 | 53  | 0       | 0 | 6  | 22 |  |
| 3    | 3  | 1                              | 9  | 31 | 45 | 4   | 1                               | 9  | 11 | 41 | 49  | 0       | 0 | 9  | 32 |  |
| 4    | 4  | 1                              | 22 | 42 | 20 | 5   | 1                               | 22 | 15 | 35 | 45  | 0       | 0 | 12 | 43 |  |
| 5    | 5  | 2                              | 5  | 52 | 55 | 7   | 2                               | 5  | 19 | 29 | 42  | 0       | 0 | 15 | 54 |  |
| 6    | 6  | 2                              | 19 | 3  | 30 | 8   | 2                               | 18 | 23 | 23 | 38  | 0       | 0 | 19 | 4  |  |
| 7    | 7  | 3                              | 2  | 14 | 5  | 10  | 3                               | 1  | 27 | 17 | 34  | 0       | 0 | 22 | 15 |  |
| 8    | 8  | 3                              | 15 | 24 | 40 | 11  | 3                               | 14 | 31 | 11 | 31  | 0       | 0 | 25 | 25 |  |
| 9    | 9  | 3                              | 28 | 35 | 15 | 12  | 3                               | 27 | 35 | 5  | 27  | 0       | 0 | 28 | 36 |  |
| 10   | 10 | 4                              | 11 | 45 | 50 | 14  | 4                               | 10 | 38 | 59 | 23  | 0       | 0 | 31 | 46 |  |
| 11   | 11 | 4                              | 24 | 56 | 25 | 15  | 4                               | 23 | 42 | 53 | 20  | 0       | 0 | 34 | 57 |  |
| 12   | 12 | 5                              | 8  | 7  | 0  | 16  | 5                               | 6  | 46 | 47 | 16  | 0       | 0 | 38 | 7  |  |
| 13   | 13 | 5                              | 21 | 17 | 35 | 18  | 5                               | 19 | 50 | 41 | 12  | 0       | 0 | 41 | 18 |  |
| 14   | 14 | 6                              | 4  | 28 | 10 | 19  | 6                               | 2  | 54 | 35 | 9   | 0       | 0 | 44 | 28 |  |
| 15   | 15 | 6                              | 17 | 38 | 45 | 20  | 6                               | 15 | 58 | 29 | 5   | 0       | 0 | 47 | 39 |  |
| 16   | 16 | 7                              | 0  | 49 | 20 | 22  | 6                               | 29 | 2  | 23 | 2   | 0       | 0 | 50 | 49 |  |
| 17   | 17 | 7                              | 13 | 59 | 55 | 23  | 7                               | 12 | 6  | 16 | 58  | 0       | 0 | 54 | 0  |  |
| 18   | 18 | 7                              | 27 | 10 | 30 | 25  | 7                               | 25 | 10 | 10 | 54  | 0       | 0 | 57 | 11 |  |
| 19   | 19 | 8                              | 10 | 21 | 5  | 26  | 8                               | 8  | 14 | 4  | 51  | 0       | 1 | 0  | 22 |  |
| 20   | 20 | 8                              | 23 | 32 | 40 | 27  | 8                               | 21 | 17 | 58 | 47  | 0       | 1 | 3  | 33 |  |
| 21   | 21 | 9                              | 6  | 42 | 15 | 29  | 9                               | 4  | 21 | 52 | 43  | 0       | 1 | 6  | 43 |  |
| 22   | 22 | 9                              | 19 | 52 | 50 | 30  | 9                               | 17 | 25 | 46 | 40  | 0       | 1 | 9  | 54 |  |
| 23   | 23 | 10                             | 3  | 3  | 25 | 31  | 10                              | 0  | 29 | 40 | 36  | 0       | 1 | 13 | 5  |  |
| 24   | 24 | 10                             | 16 | 14 | 0  | 33  | 10                              | 13 | 33 | 34 | 32  | 0       | 1 | 16 | 15 |  |
| 25   | 25 | 10                             | 29 | 24 | 35 | 34  | 10                              | 26 | 37 | 28 | 29  | 0       | 1 | 19 | 26 |  |
| 26   | 26 | 11                             | 12 | 35 | 10 | 36  | 11                              | 9  | 41 | 22 | 25  | 0       | 1 | 22 | 37 |  |
| 27   | 27 | 11                             | 25 | 45 | 45 | 37  | 11                              | 22 | 45 | 16 | 21  | 0       | 1 | 25 | 47 |  |
| 28   | 28 | 0                              | 8  | 56 | 20 | 38  | 0                               | 5  | 49 | 10 | 18  | 0       | 1 | 28 | 58 |  |
| 29   | 29 | 0                              | 22 | 6  | 55 | 40  | 0                               | 18 | 53 | 4  | 14  | 0       | 1 | 32 | 9  |  |
| 30   | 30 | 1                              | 5  | 17 | 30 | 41  | 1                               | 1  | 56 | 58 | 10  | 0       | 1 | 35 | 19 |  |
| 31   | 31 | 1                              | 18 | 28 | 5  | 42  | 1                               | 15 | 0  | 52 | 7   | 0       | 1 | 38 | 30 |  |



## FEBRVARIVS.

| Motus $\Omega$ |   |    |    | Bisextilis | Communis | Longitudo $\odot$ ab Aequinoctio. |    |    |    |    | Anomalia, seu argumentum $\odot$ . |    |    |    |    | Motus $\Omega$ . |   |    |    |
|----------------|---|----|----|------------|----------|-----------------------------------|----|----|----|----|------------------------------------|----|----|----|----|------------------|---|----|----|
| S              | P | i  | u  |            |          | S                                 | P  | i  | u  | u  | S                                  | P  | i  | u  | u  | S                | P | i  | u  |
| 0              | 0 | 3  | 11 |            | 1        | 2                                 | 1  | 38 | 40 | 44 | 1                                  | 28 | 4  | 46 | 3  | 0                | 1 | 41 | 41 |
| 0              | 0 | 6  | 22 |            | 2        | 2                                 | 14 | 49 | 15 | 45 | 2                                  | 11 | 8  | 39 | 59 | 0                | 1 | 44 | 52 |
| 0              | 0 | 9  | 32 |            | 3        | 2                                 | 27 | 59 | 50 | 46 | 2                                  | 24 | 12 | 33 | 55 | 0                | 1 | 48 | 2  |
| 0              | 0 | 12 | 43 |            | 4        | 3                                 | 11 | 10 | 25 | 48 | 3                                  | 7  | 16 | 27 | 52 | 0                | 1 | 51 | 13 |
| 0              | 0 | 15 | 54 |            | 5        | 3                                 | 24 | 21 | 0  | 49 | 3                                  | 20 | 20 | 21 | 48 | 0                | 1 | 54 | 24 |
| 0              | 0 | 19 | 4  |            | 6        | 4                                 | 7  | 31 | 35 | 51 | 4                                  | 3  | 24 | 15 | 44 | 0                | 1 | 57 | 34 |
| 0              | 0 | 22 | 15 |            | 7        | 4                                 | 20 | 42 | 10 | 52 | 4                                  | 16 | 28 | 9  | 41 | 0                | 2 | 0  | 45 |
| 0              | 0 | 25 | 25 |            | 8        | 5                                 | 3  | 52 | 45 | 53 | 4                                  | 29 | 32 | 3  | 37 | 0                | 2 | 3  | 56 |
| 0              | 0 | 28 | 36 |            | 9        | 5                                 | 17 | 3  | 20 | 55 | 5                                  | 12 | 35 | 57 | 33 | 0                | 2 | 7  | 6  |
| 0              | 0 | 31 | 46 |            | 10       | 6                                 | 0  | 13 | 55 | 56 | 5                                  | 25 | 39 | 51 | 29 | 0                | 2 | 10 | 17 |
| 0              | 0 | 34 | 57 |            | 11       | 6                                 | 13 | 24 | 30 | 57 | 6                                  | 8  | 43 | 45 | 26 | 0                | 2 | 13 | 28 |
| 0              | 0 | 38 | 7  |            | 12       | 6                                 | 26 | 35 | 5  | 59 | 6                                  | 21 | 47 | 39 | 22 | 0                | 2 | 16 | 38 |
| 0              | 0 | 41 | 18 |            | 13       | 7                                 | 9  | 45 | 41 | 0  | 7                                  | 4  | 51 | 33 | 19 | 0                | 2 | 19 | 49 |
| 0              | 0 | 44 | 28 |            | 14       | 7                                 | 22 | 56 | 16 | 1  | 7                                  | 17 | 55 | 27 | 15 | 0                | 2 | 22 | 59 |
| 0              | 0 | 47 | 39 |            | 15       | 8                                 | 6  | 6  | 51 | 3  | 8                                  | 0  | 59 | 21 | 11 | 0                | 2 | 26 | 10 |
| 0              | 0 | 50 | 49 |            | 16       | 8                                 | 19 | 17 | 26 | 4  | 8                                  | 14 | 3  | 15 | 8  | 0                | 2 | 29 | 21 |
| 0              | 0 | 54 | 0  |            | 17       | 9                                 | 2  | 28 | 1  | 6  | 8                                  | 27 | 7  | 9  | 4  | 0                | 2 | 32 | 31 |
| 0              | 0 | 57 | 11 |            | 18       | 9                                 | 15 | 38 | 36 | 7  | 9                                  | 10 | 11 | 3  | 0  | 0                | 2 | 35 | 42 |
| 0              | 1 | 0  | 22 |            | 19       | 9                                 | 28 | 49 | 11 | 8  | 9                                  | 23 | 14 | 56 | 57 | 0                | 2 | 38 | 53 |
| 0              | 1 | 3  | 33 |            | 20       | 10                                | 11 | 59 | 46 | 10 | 10                                 | 6  | 18 | 50 | 53 | 0                | 2 | 42 | 4  |
| 0              | 1 | 6  | 43 |            | 21       | 10                                | 25 | 10 | 21 | 11 | 10                                 | 19 | 22 | 44 | 49 | 0                | 2 | 45 | 14 |
| 0              | 1 | 9  | 54 |            | 22       | 11                                | 8  | 20 | 56 | 12 | 11                                 | 2  | 26 | 38 | 46 | 0                | 2 | 48 | 25 |
| 0              | 1 | 13 | 5  |            | 23       | 11                                | 21 | 31 | 31 | 14 | 11                                 | 15 | 30 | 32 | 42 | 0                | 2 | 51 | 35 |
| 0              | 1 | 16 | 15 |            | 24       | 0                                 | 4  | 42 | 6  | 15 | 11                                 | 28 | 34 | 26 | 38 | 0                | 2 | 54 | 46 |
| 0              | 1 | 19 | 26 |            | 25       | 0                                 | 17 | 52 | 41 | 17 | 0                                  | 11 | 38 | 20 | 35 | 0                | 2 | 57 | 56 |
| 0              | 1 | 22 | 37 |            | 26       | 1                                 | 1  | 3  | 16 | 18 | 0                                  | 24 | 42 | 14 | 31 | 0                | 3 | 1  | 7  |
| 0              | 1 | 25 | 47 |            | 27       | 1                                 | 14 | 13 | 51 | 19 | 1                                  | 7  | 46 | 8  | 27 | 0                | 3 | 4  | 17 |
| 0              | 1 | 28 | 58 |            | 28       | 1                                 | 27 | 24 | 26 | 21 | 1                                  | 20 | 50 | 2  | 24 | 0                | 3 | 7  | 28 |
| 0              | 1 | 32 | 9  |            | 29       | 2                                 | 10 | 35 | 1  | 22 | 2                                  | 3  | 53 | 56 | 20 | 0                | 3 | 10 | 38 |
| 0              | 1 | 35 | 19 |            |          |                                   |    |    |    |    |                                    |    |    |    |    |                  |   |    |    |
| 0              | 1 | 38 | 30 |            |          |                                   |    |    |    |    |                                    |    |    |    |    |                  |   |    |    |

| M A R T I V S. |          |                                |    |    |    |    |                                 |    |    |    |    |          |    |    |    |   |
|----------------|----------|--------------------------------|----|----|----|----|---------------------------------|----|----|----|----|----------|----|----|----|---|
| Bifexilis      | Communis | Longitudo ☿ ab<br>Aequinoctio. |    |    |    |    | Anomalia, seu Ar<br>gumentum ☿. |    |    |    |    | Motus ☿. |    |    |    |   |
|                |          | Dies                           | S  | P  | i  | u  | m                               | S  | P  | i  | u  | m        | S  | P  | i  | u |
|                | 1        | 2                              | 10 | 35 | 1  | 22 | 2                               | 3  | 53 | 56 | 0  | 3        | 10 | 38 |    |   |
| 1              | 2        | 2                              | 23 | 45 | 36 | 23 | 2                               | 16 | 57 | 50 | 17 | 0        | 3  | 13 | 49 |   |
| 2              | 3        | 3                              | 6  | 56 | 11 | 25 | 3                               | 0  | 1  | 44 | 13 | 0        | 3  | 16 | 59 |   |
| 3              | 4        | 3                              | 20 | 6  | 46 | 26 | 3                               | 13 | 5  | 38 | 10 | 0        | 3  | 20 | 10 |   |
| 4              | 5        | 4                              | 3  | 17 | 21 | 27 | 3                               | 26 | 9  | 32 | 6  | 0        | 3  | 23 | 20 |   |
| 5              | 6        | 4                              | 16 | 27 | 56 | 29 | 4                               | 9  | 13 | 26 | 2  | 0        | 3  | 26 | 31 |   |
| 6              | 7        | 4                              | 29 | 38 | 31 | 30 | 4                               | 22 | 17 | 19 | 59 | 0        | 3  | 29 | 42 |   |
| 7              | 8        | 5                              | 12 | 49 | 6  | 32 | 5                               | 5  | 21 | 13 | 55 | 0        | 3  | 32 | 52 |   |
| 8              | 9        | 5                              | 25 | 59 | 41 | 33 | 5                               | 18 | 25 | 7  | 51 | 0        | 3  | 36 | 3  |   |
| 9              | 10       | 6                              | 9  | 10 | 16 | 34 | 6                               | 1  | 29 | 1  | 48 | 0        | 3  | 39 | 14 |   |
| 10             | 11       | 6                              | 22 | 20 | 51 | 36 | 6                               | 14 | 32 | 55 | 44 | 0        | 3  | 42 | 24 |   |
| 11             | 12       | 7                              | 5  | 31 | 26 | 37 | 6                               | 27 | 36 | 49 | 40 | 0        | 3  | 45 | 35 |   |
| 12             | 13       | 7                              | 18 | 42 | 1  | 38 | 7                               | 10 | 40 | 43 | 37 | 0        | 3  | 48 | 46 |   |
| 13             | 14       | 8                              | 1  | 52 | 36 | 40 | 7                               | 23 | 44 | 37 | 33 | 0        | 3  | 51 | 56 |   |
| 14             | 15       | 8                              | 15 | 3  | 11 | 41 | 8                               | 6  | 48 | 31 | 30 | 0        | 3  | 55 | 7  |   |
| 15             | 16       | 8                              | 28 | 13 | 46 | 43 | 8                               | 19 | 52 | 25 | 26 | 0        | 3  | 58 | 17 |   |
| 16             | 17       | 9                              | 11 | 24 | 21 | 44 | 9                               | 2  | 56 | 19 | 23 | 0        | 4  | 1  | 28 |   |
| 17             | 18       | 9                              | 24 | 34 | 56 | 45 | 9                               | 16 | 0  | 13 | 19 | 0        | 4  | 4  | 39 |   |
| 18             | 19       | 10                             | 7  | 45 | 31 | 47 | 9                               | 29 | 4  | 7  | 15 | 0        | 4  | 7  | 49 |   |
| 19             | 20       | 10                             | 20 | 56 | 6  | 48 | 10                              | 12 | 8  | 1  | 12 | 0        | 4  | 11 | 0  |   |
| 20             | 21       | 11                             | 4  | 6  | 41 | 49 | 10                              | 25 | 11 | 55 | 8  | 0        | 4  | 14 | 10 |   |
| 21             | 22       | 11                             | 17 | 17 | 16 | 51 | 11                              | 8  | 15 | 49 | 4  | 0        | 4  | 17 | 21 |   |
| 22             | 23       | 0                              | 0  | 27 | 51 | 52 | 11                              | 21 | 19 | 43 | 1  | 0        | 4  | 20 | 32 |   |
| 23             | 24       | 0                              | 13 | 38 | 26 | 53 | 0                               | 4  | 23 | 36 | 57 | 0        | 4  | 23 | 42 |   |
| 24             | 25       | 0                              | 26 | 49 | 1  | 55 | 0                               | 17 | 27 | 30 | 53 | 0        | 4  | 26 | 53 |   |
| 25             | 26       | 1                              | 9  | 59 | 36 | 56 | 1                               | 0  | 31 | 24 | 50 | 0        | 4  | 30 | 4  |   |
| 26             | 27       | 1                              | 23 | 10 | 11 | 58 | 1                               | 13 | 35 | 18 | 46 | 0        | 4  | 33 | 14 |   |
| 27             | 28       | 2                              | 6  | 20 | 46 | 59 | 1                               | 26 | 39 | 12 | 42 | 0        | 4  | 36 | 25 |   |
| 28             | 29       | 2                              | 19 | 31 | 22 | 0  | 2                               | 9  | 43 | 6  | 39 | 0        | 4  | 39 | 36 |   |
| 29             | 30       | 3                              | 2  | 41 | 57 | 2  | 2                               | 22 | 47 | 0  | 35 | 0        | 4  | 42 | 46 |   |
| 30             | 31       | 3                              | 15 | 52 | 32 | 3  | 3                               | 5  | 50 | 54 | 31 | 0        | 4  | 45 | 57 |   |
| 31             |          | 3                              | 29 | 3  | 7  | 5  | 3                               | 18 | 54 | 48 | 28 | 0        | 4  | 49 | 8  |   |



*Ad singulos dies anni.*

## A P R I L I S.

| Motus ☉. |   |    |    |   | Bifexilis | Communis | Longitudo ☉ ab<br>Acquinoctio. |    |    |    |    | Anomalia, seu Ar<br>gumentum ☉. |    |    |    |    | Motus ☉. |   |    |    |   |
|----------|---|----|----|---|-----------|----------|--------------------------------|----|----|----|----|---------------------------------|----|----|----|----|----------|---|----|----|---|
| S        | P | i  | u  | m |           |          | S                              | P  | i  | u  | m  | S                               | P  | i  | u  | m  | S        | P | i  | u  | m |
| 0        | 3 | 10 | 38 |   |           |          | 3                              | 29 | 3  | 7  | 5  | 3                               | 18 | 54 | 48 | 28 | 0        | 4 | 49 | 8  |   |
| 0        | 3 | 13 | 49 |   |           | 1        | 4                              | 12 | 13 | 42 | 6  | 4                               | 1  | 58 | 42 | 24 | 0        | 4 | 52 | 18 |   |
| 0        | 3 | 16 | 59 |   |           | 2        | 4                              | 25 | 24 | 17 | 8  | 4                               | 15 | 2  | 36 | 20 | 0        | 4 | 55 | 29 |   |
| 0        | 3 | 20 | 10 |   |           | 3        | 5                              | 8  | 34 | 52 | 9  | 4                               | 28 | 6  | 30 | 16 | 0        | 4 | 58 | 40 |   |
| 0        | 3 | 23 | 20 |   |           | 4        | 5                              | 21 | 45 | 27 | 10 | 5                               | 11 | 10 | 24 | 13 | 0        | 5 | 1  | 50 |   |
| 0        | 3 | 26 | 31 |   |           | 5        | 6                              | 4  | 56 | 2  | 11 | 5                               | 24 | 14 | 18 | 9  | 0        | 5 | 5  | 1  |   |
| 0        | 3 | 29 | 42 |   |           | 6        | 6                              | 18 | 6  | 37 | 13 | 6                               | 7  | 18 | 12 | 5  | 0        | 5 | 8  | 12 |   |
| 0        | 3 | 32 | 52 |   |           | 7        | 7                              | 1  | 17 | 12 | 14 | 6                               | 20 | 22 | 6  | 2  | 0        | 5 | 11 | 22 |   |
| 0        | 3 | 36 | 3  |   |           | 8        | 7                              | 14 | 27 | 47 | 15 | 7                               | 3  | 25 | 59 | 58 | 0        | 5 | 14 | 33 |   |
| 0        | 3 | 39 | 14 |   |           | 9        | 7                              | 27 | 38 | 22 | 17 | 7                               | 16 | 29 | 53 | 54 | 0        | 5 | 17 | 44 |   |
| 0        | 3 | 42 | 24 |   |           | 10       | 8                              | 10 | 48 | 57 | 18 | 7                               | 29 | 33 | 47 | 51 | 0        | 5 | 20 | 54 |   |
| 0        | 3 | 45 | 35 |   |           | 11       | 8                              | 23 | 59 | 32 | 19 | 8                               | 12 | 37 | 41 | 47 | 0        | 5 | 24 | 5  |   |
| 0        | 3 | 48 | 46 |   |           | 12       | 9                              | 7  | 10 | 7  | 21 | 8                               | 25 | 41 | 35 | 43 | 0        | 5 | 27 | 16 |   |
| 0        | 3 | 51 | 56 |   |           | 13       | 9                              | 20 | 20 | 42 | 22 | 9                               | 8  | 45 | 29 | 40 | 0        | 5 | 30 | 27 |   |
| 0        | 3 | 55 | 7  |   |           | 14       | 10                             | 3  | 31 | 17 | 24 | 9                               | 21 | 49 | 23 | 36 | 0        | 5 | 33 | 37 |   |
| 0        | 3 | 58 | 17 |   |           | 15       | 10                             | 16 | 41 | 52 | 25 | 10                              | 4  | 53 | 17 | 32 | 0        | 5 | 36 | 48 |   |
| 0        | 4 | 1  | 28 |   |           | 16       | 10                             | 29 | 52 | 27 | 26 | 10                              | 17 | 57 | 11 | 29 | 0        | 5 | 39 | 59 |   |
| 0        | 4 | 4  | 39 |   |           | 17       | 11                             | 13 | 3  | 2  | 28 | 11                              | 1  | 1  | 5  | 25 | 0        | 5 | 43 | 9  |   |
| 0        | 4 | 7  | 49 |   |           | 18       | 11                             | 26 | 13 | 37 | 29 | 11                              | 14 | 4  | 59 | 21 | 0        | 5 | 46 | 20 |   |
| 0        | 4 | 11 | 0  |   |           | 19       | 0                              | 9  | 24 | 12 | 30 | 11                              | 27 | 8  | 53 | 18 | 0        | 5 | 49 | 31 |   |
| 0        | 4 | 14 | 10 |   |           | 20       | 0                              | 22 | 34 | 47 | 32 | 0                               | 10 | 12 | 47 | 14 | 0        | 5 | 52 | 42 |   |
| 0        | 4 | 17 | 21 |   |           | 21       | 1                              | 5  | 45 | 22 | 33 | 0                               | 23 | 16 | 41 | 10 | 0        | 5 | 55 | 52 |   |
| 0        | 4 | 20 | 32 |   |           | 22       | 1                              | 18 | 55 | 57 | 34 | 1                               | 6  | 20 | 35 | 7  | 0        | 5 | 59 | 3  |   |
| 0        | 4 | 23 | 42 |   |           | 23       | 2                              | 2  | 6  | 32 | 36 | 1                               | 19 | 24 | 29 | 3  | 0        | 6 | 2  | 14 |   |
| 0        | 4 | 26 | 53 |   |           | 24       | 2                              | 15 | 17 | 7  | 37 | 2                               | 2  | 28 | 22 | 59 | 0        | 6 | 5  | 24 |   |
| 0        | 4 | 30 | 4  |   |           | 25       | 2                              | 28 | 27 | 42 | 39 | 2                               | 15 | 32 | 16 | 56 | 0        | 6 | 8  | 35 |   |
| 0        | 4 | 33 | 14 |   |           | 26       | 3                              | 11 | 38 | 17 | 40 | 2                               | 28 | 36 | 10 | 52 | 0        | 6 | 11 | 45 |   |
| 0        | 4 | 36 | 25 |   |           | 27       | 3                              | 24 | 48 | 52 | 41 | 3                               | 11 | 40 | 4  | 48 | 0        | 6 | 14 | 56 |   |
| 0        | 4 | 39 | 36 |   |           | 28       | 4                              | 7  | 59 | 27 | 42 | 3                               | 24 | 43 | 58 | 45 | 0        | 6 | 18 | 6  |   |
| 0        | 4 | 42 | 46 |   |           | 29       | 4                              | 21 | 10 | 2  | 44 | 4                               | 7  | 47 | 52 | 41 | 0        | 6 | 21 | 17 |   |
| 0        | 4 | 45 | 57 |   |           | 30       | 5                              | 4  | 20 | 37 | 45 | 4                               | 20 | 51 | 46 | 37 | 0        | 6 | 24 | 27 |   |

F 2

|           |    | M A I V S. |                             |    |    |    |     |                             |    |    |    |     |          |   |    |    |     |  |
|-----------|----|------------|-----------------------------|----|----|----|-----|-----------------------------|----|----|----|-----|----------|---|----|----|-----|--|
| Bifexilis |    | Communis   | Longitudo ☉ ab Aequinoctio. |    |    |    |     | Anomalia, seu Argumentum ☉. |    |    |    |     | Morus ☽. |   |    |    |     |  |
| Dies      |    |            | S                           | P  | i  | u  | iii | S                           | P  | i  | u  | iii | S        | P | i  | u  | iii |  |
|           | 1  | 2          | 5                           | 4  | 20 | 37 | 45  | 4                           | 20 | 51 | 46 | 37  | 0        | 6 | 24 | 27 |     |  |
| 1         | 2  |            | 5                           | 17 | 31 | 12 | 46  | 5                           | 3  | 55 | 40 | 34  | 0        | 6 | 27 | 38 |     |  |
| 2         | 3  |            | 6                           | 0  | 41 | 47 | 48  | 5                           | 16 | 59 | 34 | 30  | 0        | 6 | 30 | 48 |     |  |
| 3         | 4  |            | 6                           | 13 | 52 | 22 | 49  | 6                           | 0  | 3  | 28 | 27  | 0        | 6 | 33 | 59 |     |  |
| 4         | 5  |            | 6                           | 27 | 2  | 57 | 50  | 6                           | 13 | 7  | 22 | 23  | 0        | 6 | 37 | 10 |     |  |
| 5         | 6  |            | 7                           | 10 | 13 | 32 | 52  | 6                           | 26 | 11 | 16 | 19  | 0        | 6 | 40 | 20 |     |  |
| 6         | 7  |            | 7                           | 23 | 24 | 7  | 53  | 7                           | 9  | 15 | 10 | 16  | 0        | 6 | 43 | 31 |     |  |
| 7         | 8  |            | 8                           | 6  | 34 | 42 | 55  | 7                           | 22 | 19 | 4  | 12  | 0        | 6 | 46 | 42 |     |  |
| 8         | 9  |            | 8                           | 19 | 45 | 17 | 56  | 8                           | 5  | 22 | 58 | 8   | 0        | 6 | 49 | 52 |     |  |
| 9         | 10 |            | 9                           | 2  | 55 | 52 | 57  | 8                           | 18 | 26 | 52 | 5   | 0        | 6 | 53 | 3  |     |  |
| 10        | 11 |            | 9                           | 16 | 6  | 27 | 59  | 9                           | 1  | 30 | 46 | 1   | 0        | 6 | 56 | 14 |     |  |
| 11        | 12 |            | 9                           | 29 | 17 | 3  | 0   | 9                           | 14 | 34 | 39 | 58  | 0        | 6 | 59 | 24 |     |  |
| 12        | 13 |            | 10                          | 12 | 27 | 38 | 1   | 9                           | 27 | 38 | 33 | 54  | 0        | 7 | 2  | 35 |     |  |
| 13        | 14 |            | 10                          | 25 | 38 | 13 | 3   | 10                          | 10 | 42 | 27 | 50  | 0        | 7 | 5  | 46 |     |  |
| 14        | 15 |            | 11                          | 8  | 48 | 48 | 4   | 10                          | 23 | 46 | 21 | 47  | 0        | 7 | 8  | 56 |     |  |
| 15        | 16 |            | 11                          | 21 | 59 | 23 | 6   | 11                          | 6  | 50 | 15 | 43  | 0        | 7 | 12 | 7  |     |  |
| 16        | 17 |            | 0                           | 5  | 9  | 58 | 7   | 11                          | 19 | 54 | 9  | 39  | 0        | 7 | 15 | 18 |     |  |
| 17        | 18 |            | 0                           | 18 | 20 | 33 | 8   | 0                           | 2  | 58 | 3  | 36  | 0        | 7 | 18 | 28 |     |  |
| 18        | 19 |            | 1                           | 1  | 31 | 8  | 10  | 0                           | 16 | 1  | 57 | 32  | 0        | 7 | 21 | 39 |     |  |
| 19        | 20 |            | 1                           | 14 | 41 | 43 | 11  | 0                           | 29 | 5  | 51 | 28  | 0        | 7 | 24 | 50 |     |  |
| 20        | 21 |            | 1                           | 27 | 52 | 18 | 12  | 1                           | 12 | 9  | 45 | 25  | 0        | 7 | 28 | 0  |     |  |
| 21        | 22 |            | 2                           | 11 | 2  | 53 | 14  | 1                           | 25 | 13 | 39 | 21  | 0        | 7 | 31 | 11 |     |  |
| 22        | 23 |            | 2                           | 24 | 13 | 28 | 15  | 2                           | 8  | 17 | 33 | 17  | 0        | 7 | 34 | 22 |     |  |
| 23        | 24 |            | 3                           | 7  | 24 | 3  | 16  | 2                           | 21 | 21 | 27 | 14  | 0        | 7 | 37 | 32 |     |  |
| 24        | 25 |            | 3                           | 20 | 34 | 38 | 18  | 3                           | 4  | 25 | 21 | 10  | 0        | 7 | 40 | 43 |     |  |
| 25        | 26 |            | 4                           | 3  | 45 | 13 | 19  | 3                           | 17 | 29 | 15 | 6   | 0        | 7 | 43 | 54 |     |  |
| 26        | 27 |            | 4                           | 16 | 55 | 48 | 21  | 4                           | 0  | 33 | 9  | 3   | 0        | 7 | 47 | 4  |     |  |
| 27        | 28 |            | 5                           | 0  | 6  | 23 | 22  | 4                           | 13 | 30 | 2  | 59  | 0        | 7 | 50 | 15 |     |  |
| 28        | 29 |            | 5                           | 13 | 16 | 58 | 23  | 4                           | 26 | 40 | 56 | 55  | 0        | 7 | 53 | 25 |     |  |
| 29        | 30 |            | 5                           | 26 | 27 | 33 | 25  | 5                           | 9  | 44 | 50 | 52  | 0        | 7 | 56 | 36 |     |  |
| 30        | 31 |            | 6                           | 9  | 38 | 8  | 26  | 5                           | 22 | 48 | 44 | 48  | 0        | 7 | 59 | 47 |     |  |
| 31        |    |            | 6                           | 22 | 48 | 43 | 28  | 6                           | 5  | 52 | 38 | 44  | 0        | 8 | 2  | 57 |     |  |



*Ad singulos dies anni.*

## I V N I V S.

| Motus ☉. | P | I  | II | III | Dies | Communis | Longitudo ☉ ab Aequinoctio. |    |    |    |     | Anomalia, seu Argumentum ☉. |    |    |    |     | Motus ☉. |   |    |    |
|----------|---|----|----|-----|------|----------|-----------------------------|----|----|----|-----|-----------------------------|----|----|----|-----|----------|---|----|----|
|          |   |    |    |     |      |          | S                           | P  | I  | II | III | S                           | P  | I  | II | III | S        | P | I  | II |
| 6 24 27  | 6 | 24 | 27 |     | 1    | 1        | 6                           | 22 | 48 | 43 | 28  | 6                           | 5  | 52 | 38 | 44  | 0        | 8 | 2  | 57 |
| 6 27 38  | 6 | 27 | 38 |     | 2    | 2        | 7                           | 5  | 59 | 18 | 29  | 6                           | 18 | 56 | 32 | 40  | 0        | 8 | 6  | 8  |
| 6 30 48  | 6 | 30 | 48 |     | 3    | 3        | 7                           | 19 | 9  | 53 | 31  | 7                           | 2  | 0  | 26 | 37  | 0        | 8 | 9  | 18 |
| 6 33 59  | 6 | 33 | 59 |     | 4    | 4        | 8                           | 2  | 20 | 28 | 32  | 7                           | 15 | 4  | 20 | 33  | 0        | 8 | 12 | 29 |
| 6 37 10  | 6 | 37 | 10 |     | 5    | 5        | 8                           | 15 | 31 | 3  | 33  | 7                           | 28 | 8  | 14 | 30  | 0        | 8 | 15 | 40 |
| 6 40 20  | 6 | 40 | 20 |     | 6    | 6        | 8                           | 28 | 41 | 38 | 35  | 8                           | 11 | 12 | 8  | 26  | 0        | 8 | 18 | 50 |
| 6 43 31  | 6 | 43 | 31 |     | 7    | 7        | 9                           | 11 | 52 | 13 | 36  | 8                           | 24 | 16 | 2  | 22  | 0        | 8 | 22 | 1  |
| 6 46 42  | 6 | 46 | 42 |     | 8    | 8        | 9                           | 25 | 2  | 48 | 38  | 9                           | 7  | 19 | 56 | 19  | 0        | 8 | 25 | 11 |
| 6 49 52  | 6 | 49 | 52 |     | 9    | 9        | 10                          | 8  | 13 | 23 | 39  | 9                           | 20 | 23 | 50 | 15  | 0        | 8 | 28 | 22 |
| 6 53 3   | 6 | 53 | 3  |     | 10   | 10       | 10                          | 21 | 23 | 58 | 40  | 10                          | 3  | 27 | 44 | 11  | 0        | 8 | 31 | 33 |
| 6 56 14  | 6 | 56 | 14 |     | 11   | 11       | 11                          | 4  | 34 | 33 | 42  | 10                          | 16 | 31 | 38 | 8   | 0        | 8 | 34 | 43 |
| 6 59 24  | 6 | 59 | 24 |     | 12   | 12       | 11                          | 17 | 45 | 8  | 43  | 10                          | 29 | 35 | 32 | 4   | 0        | 8 | 37 | 54 |
| 7 2 35   | 7 | 2  | 35 |     | 13   | 13       | 0                           | 0  | 55 | 43 | 44  | 11                          | 12 | 39 | 26 | 0   | 0        | 8 | 41 | 5  |
| 7 5 46   | 7 | 5  | 46 |     | 14   | 14       | 0                           | 14 | 6  | 18 | 46  | 11                          | 25 | 43 | 19 | 57  | 0        | 8 | 44 | 15 |
| 7 8 56   | 7 | 8  | 56 |     | 15   | 15       | 0                           | 27 | 16 | 53 | 47  | 0                           | 8  | 47 | 13 | 53  | 0        | 8 | 47 | 36 |
| 7 12 7   | 7 | 12 | 7  |     | 16   | 16       | 1                           | 10 | 27 | 28 | 49  | 0                           | 21 | 51 | 7  | 49  | 0        | 8 | 50 | 37 |
| 7 15 18  | 7 | 15 | 18 |     | 17   | 17       | 1                           | 23 | 38 | 3  | 50  | 1                           | 4  | 55 | 1  | 46  | 0        | 8 | 53 | 47 |
| 7 18 28  | 7 | 18 | 28 |     | 18   | 18       | 2                           | 6  | 48 | 38 | 51  | 1                           | 17 | 58 | 55 | 42  | 0        | 8 | 56 | 58 |
| 7 21 39  | 7 | 21 | 39 |     | 19   | 19       | 2                           | 19 | 59 | 13 | 53  | 2                           | 1  | 2  | 49 | 38  | 0        | 9 | 0  | 9  |
| 7 24 50  | 7 | 24 | 50 |     | 20   | 20       | 3                           | 3  | 9  | 48 | 54  | 2                           | 14 | 6  | 43 | 35  | 0        | 9 | 3  | 19 |
| 7 28 0   | 7 | 28 | 0  |     | 21   | 21       | 3                           | 16 | 20 | 23 | 55  | 2                           | 27 | 10 | 37 | 31  | 0        | 9 | 6  | 30 |
| 7 31 11  | 7 | 31 | 11 |     | 22   | 22       | 3                           | 29 | 30 | 58 | 57  | 3                           | 10 | 14 | 31 | 27  | 0        | 9 | 9  | 41 |
| 7 34 22  | 7 | 34 | 22 |     | 23   | 23       | 4                           | 12 | 41 | 33 | 58  | 3                           | 23 | 18 | 25 | 24  | 0        | 9 | 12 | 51 |
| 7 37 32  | 7 | 37 | 32 |     | 24   | 24       | 4                           | 25 | 52 | 8  | 59  | 4                           | 6  | 22 | 19 | 20  | 0        | 9 | 16 | 2  |
| 7 40 43  | 7 | 40 | 43 |     | 25   | 25       | 5                           | 9  | 2  | 44 | 1   | 4                           | 19 | 26 | 13 | 16  | 0        | 9 | 19 | 13 |
| 7 43 54  | 7 | 43 | 54 |     | 26   | 26       | 5                           | 22 | 13 | 19 | 2   | 5                           | 2  | 30 | 7  | 13  | 0        | 9 | 22 | 23 |
| 7 47 4   | 7 | 47 | 4  |     | 27   | 27       | 6                           | 5  | 23 | 54 | 4   | 5                           | 15 | 34 | 1  | 9   | 0        | 9 | 25 | 34 |
| 7 50 15  | 7 | 50 | 15 |     | 28   | 28       | 6                           | 18 | 34 | 29 | 5   | 5                           | 28 | 37 | 55 | 5   | 0        | 9 | 28 | 45 |
| 7 53 25  | 7 | 53 | 25 |     | 29   | 29       | 7                           | 1  | 45 | 4  | 6   | 6                           | 11 | 41 | 49 | 2   | 0        | 9 | 31 | 55 |
| 7 56 36  | 7 | 56 | 36 |     | 30   | 30       | 7                           | 14 | 55 | 39 | 8   | 6                           | 24 | 45 | 42 | 58  | 0        | 9 | 35 | 6  |
| 7 59 47  | 7 | 59 | 47 |     |      |          | 7                           | 28 | 6  | 14 | 9   | 7                           | 7  | 49 | 36 | 54  | 0        | 9 | 38 | 16 |

|           |          | I V L I V S .                   |    |    |    |    |                                  |    |    |    |    |           |   |    |    |    |
|-----------|----------|---------------------------------|----|----|----|----|----------------------------------|----|----|----|----|-----------|---|----|----|----|
| Bifexilis | Communis | Longitudo ☾ ab<br>Aequinoctio . |    |    |    |    | Anomalia, seu Ar<br>gumentum ☾ . |    |    |    |    | Motus ☾ . |   |    |    |    |
|           |          | Dies                            | S  | P  | ′  | ″  | ‴                                | S  | P  | ′  | ″  | ‴         | S | P  | ′  | ″  |
|           | 1        |                                 | 7  | 28 | 6  | 14 | 9                                | 7  | 7  | 49 | 36 | 54        | 0 | 9  | 38 | 16 |
| 1         | 2        |                                 | 8  | 11 | 16 | 49 | 10                               | 7  | 20 | 53 | 30 | 51        | 0 | 9  | 41 | 27 |
| 2         | 3        |                                 | 8  | 24 | 27 | 24 | 12                               | 8  | 3  | 57 | 24 | 47        | 0 | 9  | 44 | 37 |
| 3         | 4        |                                 | 9  | 7  | 37 | 59 | 13                               | 8  | 17 | 1  | 18 | 44        | 0 | 9  | 47 | 48 |
| 4         | 5        |                                 | 9  | 20 | 48 | 34 | 14                               | 9  | 0  | 5  | 12 | 40        | 0 | 9  | 50 | 59 |
| 5         | 6        |                                 | 10 | 3  | 59 | 9  | 16                               | 9  | 13 | 9  | 6  | 36        | 0 | 9  | 54 | 9  |
| 6         | 7        |                                 | 10 | 17 | 9  | 44 | 17                               | 9  | 26 | 13 | 0  | 33        | 0 | 9  | 57 | 20 |
| 7         | 8        |                                 | 11 | 0  | 20 | 19 | 19                               | 10 | 9  | 16 | 54 | 29        | 0 | 10 | 0  | 31 |
| 8         | 9        |                                 | 11 | 13 | 31 | 54 | 20                               | 10 | 22 | 20 | 48 | 25        | 0 | 10 | 3  | 41 |
| 9         | 10       |                                 | 11 | 26 | 41 | 29 | 21                               | 11 | 5  | 24 | 42 | 22        | 0 | 10 | 6  | 52 |
| 10        | 11       |                                 | 0  | 9  | 52 | 4  | 23                               | 11 | 18 | 28 | 36 | 18        | 0 | 10 | 10 | 3  |
| 11        | 12       |                                 | 0  | 23 | 2  | 39 | 24                               | 0  | 1  | 32 | 30 | 14        | 0 | 10 | 13 | 13 |
| 12        | 13       |                                 | 1  | 6  | 13 | 14 | 25                               | 0  | 14 | 36 | 24 | 11        | 0 | 10 | 16 | 24 |
| 13        | 14       |                                 | 1  | 19 | 23 | 49 | 27                               | 0  | 27 | 40 | 18 | 7         | 0 | 10 | 19 | 35 |
| 14        | 15       |                                 | 2  | 2  | 54 | 24 | 28                               | 1  | 10 | 44 | 12 | 3         | 0 | 10 | 22 | 45 |
| 15        | 16       |                                 | 2  | 15 | 44 | 59 | 30                               | 1  | 23 | 48 | 6  | 0         | 0 | 10 | 25 | 56 |
| 16        | 17       |                                 | 2  | 28 | 55 | 34 | 31                               | 2  | 6  | 51 | 59 | 56        | 0 | 10 | 29 | 7  |
| 17        | 18       |                                 | 3  | 12 | 6  | 9  | 32                               | 2  | 19 | 55 | 53 | 53        | 0 | 10 | 32 | 17 |
| 18        | 19       |                                 | 3  | 25 | 16 | 44 | 34                               | 3  | 2  | 59 | 47 | 49        | 0 | 10 | 35 | 28 |
| 19        | 20       |                                 | 4  | 8  | 27 | 19 | 35                               | 3  | 16 | 3  | 41 | 45        | 0 | 10 | 38 | 39 |
| 20        | 21       |                                 | 4  | 21 | 37 | 54 | 36                               | 3  | 29 | 7  | 35 | 42        | 0 | 10 | 41 | 49 |
| 21        | 22       |                                 | 5  | 4  | 48 | 29 | 38                               | 4  | 12 | 11 | 29 | 38        | 0 | 10 | 45 | 0  |
| 22        | 23       |                                 | 5  | 17 | 59 | 4  | 39                               | 4  | 25 | 15 | 23 | 34        | 0 | 10 | 48 | 10 |
| 23        | 24       |                                 | 6  | 1  | 9  | 39 | 41                               | 5  | 8  | 19 | 17 | 31        | 0 | 10 | 51 | 21 |
| 24        | 25       |                                 | 6  | 14 | 20 | 14 | 42                               | 5  | 21 | 23 | 11 | 27        | 0 | 10 | 54 | 31 |
| 25        | 26       |                                 | 6  | 27 | 30 | 49 | 44                               | 6  | 4  | 27 | 5  | 23        | 0 | 10 | 57 | 42 |
| 26        | 27       |                                 | 7  | 10 | 41 | 24 | 45                               | 6  | 17 | 30 | 59 | 20        | 0 | 11 | 0  | 52 |
| 27        | 28       |                                 | 7  | 23 | 51 | 59 | 46                               | 7  | 0  | 34 | 53 | 16        | 0 | 11 | 4  | 3  |
| 28        | 29       |                                 | 8  | 7  | 2  | 34 | 48                               | 7  | 13 | 38 | 47 | 12        | 0 | 11 | 7  | 14 |
| 29        | 30       |                                 | 8  | 20 | 13 | 9  | 49                               | 7  | 26 | 42 | 41 | 9         | 0 | 11 | 10 | 24 |
| 30        | 31       |                                 | 9  | 3  | 23 | 44 | 51                               | 8  | 9  | 46 | 35 | 5         | 0 | 11 | 13 | 35 |
| 31        |          |                                 | 9  | 16 | 34 | 19 | 52                               | 8  | 22 | 50 | 29 | 1         | 0 | 11 | 16 | 45 |



*Ad singulos dies anni.*

## AUGVSTVS.

| Morus ☿. |    |    |    |   |
|----------|----|----|----|---|
| S        | P  | i  | u  | u |
| o        | 9  | 38 | 16 |   |
| o        | 9  | 41 | 27 |   |
| o        | 9  | 44 | 37 |   |
| o        | 9  | 47 | 48 |   |
| o        | 9  | 50 | 59 |   |
| o        | 9  | 54 | 9  |   |
| o        | 9  | 57 | 20 |   |
| o        | 10 | 0  | 31 |   |
| o        | 10 | 3  | 41 |   |
| o        | 10 | 6  | 52 |   |
| o        | 10 | 10 | 3  |   |
| o        | 10 | 13 | 13 |   |
| o        | 10 | 16 | 24 |   |
| o        | 10 | 19 | 35 |   |
| o        | 10 | 22 | 45 |   |
| o        | 10 | 25 | 56 |   |
| o        | 10 | 29 | 7  |   |
| o        | 10 | 32 | 17 |   |
| o        | 10 | 35 | 28 |   |
| o        | 10 | 38 | 39 |   |
| o        | 10 | 41 | 49 |   |
| o        | 10 | 45 | 0  |   |
| o        | 10 | 48 | 10 |   |
| o        | 10 | 51 | 21 |   |
| o        | 10 | 54 | 31 |   |
| o        | 10 | 57 | 42 |   |
| o        | 11 | 0  | 52 |   |
| o        | 11 | 4  | 3  |   |
| o        | 11 | 7  | 14 |   |
| o        | 11 | 10 | 24 |   |
| o        | 11 | 13 | 35 |   |
| o        | 11 | 16 | 45 |   |

Quinquages aies anni.

# AVGVSTVS.

| Bifexilis | Communis | Longitudo ☿ ab Aequinoctio. |    |    |    |    | Anomalia, seu Argumentum ☿. |    |    |    |    | Motus ☿. |   |    |    |    |
|-----------|----------|-----------------------------|----|----|----|----|-----------------------------|----|----|----|----|----------|---|----|----|----|
|           |          | Dies                        | S  | P  | r  | u  | m                           | S  | P  | r  | u  | m        | S | P  | r  | u  |
| 1         | 1        | 1                           | 9  | 16 | 34 | 19 | 52                          | 8  | 22 | 50 | 29 | 1        | o | 11 | 16 | 45 |
| 2         | 2        | 2                           | 9  | 29 | 44 | 54 | 53                          | 9  | 5  | 54 | 22 | 58       | o | 11 | 19 | 56 |
| 3         | 3        | 3                           | 10 | 12 | 55 | 29 | 55                          | 9  | 18 | 58 | 16 | 54       | o | 11 | 23 | 6  |
| 4         | 4        | 4                           | 10 | 26 | 6  | 4  | 56                          | 10 | 2  | 2  | 10 | 50       | o | 11 | 26 | 17 |
| 5         | 5        | 5                           | 11 | 9  | 16 | 39 | 57                          | 10 | 15 | 6  | 4  | 47       | o | 11 | 29 | 28 |
| 6         | 6        | 6                           | 11 | 22 | 27 | 14 | 59                          | 10 | 28 | 9  | 58 | 43       | o | 11 | 32 | 38 |
| 7         | 7        | 7                           | 0  | 3  | 37 | 50 | 0                           | 11 | 11 | 13 | 52 | 39       | o | 11 | 35 | 49 |
| 8         | 8        | 8                           | 0  | 18 | 48 | 25 | 2                           | 11 | 24 | 17 | 46 | 36       | o | 11 | 39 | 0  |
| 9         | 9        | 9                           | 1  | 1  | 59 | 0  | 3                           | 0  | 7  | 21 | 40 | 32       | o | 11 | 42 | 10 |
| 10        | 10       | 10                          | 1  | 15 | 9  | 35 | 4                           | 0  | 20 | 25 | 34 | 28       | o | 11 | 45 | 21 |
| 11        | 11       | 11                          | 1  | 28 | 20 | 10 | 6                           | 1  | 3  | 29 | 28 | 25       | o | 11 | 48 | 31 |
| 12        | 12       | 12                          | 2  | 11 | 30 | 45 | 7                           | 1  | 16 | 33 | 22 | 21       | o | 11 | 51 | 42 |
| 13        | 13       | 13                          | 2  | 24 | 41 | 20 | 8                           | 1  | 29 | 37 | 16 | 17       | o | 11 | 54 | 53 |
| 14        | 14       | 14                          | 3  | 7  | 51 | 55 | 10                          | 2  | 12 | 41 | 10 | 14       | o | 11 | 58 | 3  |
| 15        | 15       | 15                          | 3  | 21 | 2  | 30 | 11                          | 2  | 25 | 45 | 4  | 10       | o | 12 | 1  | 14 |
| 16        | 16       | 16                          | 4  | 4  | 13 | 5  | 13                          | 3  | 8  | 48 | 58 | 7        | o | 12 | 4  | 25 |
| 17        | 17       | 17                          | 4  | 17 | 23 | 40 | 14                          | 3  | 21 | 52 | 52 | 3        | o | 12 | 7  | 35 |
| 18        | 18       | 18                          | 5  | 0  | 34 | 15 | 15                          | 4  | 4  | 56 | 46 | 0        | o | 12 | 10 | 46 |
| 19        | 19       | 19                          | 5  | 13 | 44 | 50 | 17                          | 4  | 18 | 0  | 39 | 56       | o | 12 | 13 | 57 |
| 20        | 20       | 20                          | 5  | 26 | 55 | 25 | 18                          | 5  | 1  | 4  | 33 | 52       | o | 12 | 17 | 7  |
| 21        | 21       | 21                          | 6  | 10 | 6  | 0  | 19                          | 5  | 14 | 8  | 27 | 49       | o | 12 | 20 | 18 |
| 22        | 22       | 22                          | 6  | 23 | 16 | 35 | 21                          | 5  | 27 | 12 | 21 | 45       | o | 12 | 23 | 29 |
| 23        | 23       | 23                          | 7  | 6  | 27 | 10 | 22                          | 6  | 10 | 16 | 15 | 41       | o | 12 | 26 | 39 |
| 24        | 24       | 24                          | 7  | 19 | 37 | 45 | 23                          | 6  | 23 | 20 | 9  | 38       | o | 12 | 29 | 50 |
| 25        | 25       | 25                          | 8  | 2  | 48 | 20 | 25                          | 7  | 6  | 24 | 3  | 34       | o | 12 | 33 | 1  |
| 26        | 26       | 26                          | 8  | 15 | 58 | 55 | 26                          | 7  | 19 | 27 | 57 | 30       | o | 12 | 36 | 11 |
| 27        | 27       | 27                          | 8  | 29 | 9  | 30 | 28                          | 8  | 2  | 31 | 51 | 27       | o | 12 | 39 | 22 |
| 28        | 28       | 28                          | 9  | 12 | 19 | 5  | 29                          | 8  | 15 | 35 | 45 | 23       | o | 12 | 42 | 33 |
| 29        | 29       | 29                          | 9  | 25 | 30 | 40 | 30                          | 8  | 28 | 39 | 39 | 19       | o | 12 | 45 | 43 |
| 30        | 30       | 30                          | 10 | 8  | 40 | 15 | 32                          | 9  | 11 | 43 | 33 | 16       | o | 12 | 48 | 54 |
| 31        | 31       | 31                          | 10 | 21 | 51 | 50 | 33                          | 9  | 24 | 47 | 27 | 12       | o | 12 | 52 | 5  |
|           |          |                             | 11 | 5  | 2  | 25 | 34                          | 10 | 7  | 51 | 21 | 8        | o | 12 | 55 | 15 |

| SEPTEMBER. |    |          |                             |    |    |    |     |                             |    |    |    |     |          |    |    |    |    |  |  |  |
|------------|----|----------|-----------------------------|----|----|----|-----|-----------------------------|----|----|----|-----|----------|----|----|----|----|--|--|--|
| Biflexilis |    | Communis | Longitudo ☾ ab Aequinoctio. |    |    |    |     | Anomalia, seu Argumentum ☾. |    |    |    |     | Morus ☾. |    |    |    |    |  |  |  |
|            |    |          | S                           | P  | i  | ii | iii | S                           | P  | i  | ii | iii | S        | P  | i  | ii |    |  |  |  |
| Dies       |    |          |                             |    |    |    |     |                             |    |    |    |     |          |    |    |    |    |  |  |  |
|            | 1  | 2        | 11                          | 5  | 2  | 25 | 34  | 10                          | 7  | 51 | 21 | 8   | 0        | 12 | 55 | 15 |    |  |  |  |
| 1          | 2  |          | 11                          | 18 | 13 | 0  | 35  | 10                          | 20 | 55 | 15 | 4   | 0        | 12 | 58 |    | 26 |  |  |  |
| 2          | 3  |          | 0                           | 1  | 23 | 35 | 37  | 11                          | 3  | 59 | 9  | 0   | 0        | 13 | 1  | 36 |    |  |  |  |
| 3          | 4  |          | 0                           | 14 | 34 | 10 | 38  | 11                          | 17 | 3  | 2  | 57  | 0        | 13 | 4  | 47 |    |  |  |  |
| 4          | 5  |          | 0                           | 27 | 44 | 45 | 39  | 0                           | 0  | 6  | 56 | 53  | 0        | 13 | 7  | 58 |    |  |  |  |
| 5          | 6  |          | 1                           | 10 | 55 | 20 | 41  | 0                           | 13 | 10 | 50 | 50  | 0        | 13 | 11 | 8  |    |  |  |  |
| 6          | 7  |          | 1                           | 24 | 5  | 55 | 42  | 0                           | 26 | 14 | 44 | 46  | 0        | 13 | 14 | 19 |    |  |  |  |
| 7          | 8  |          | 2                           | 7  | 16 | 30 | 44  | 1                           | 9  | 18 | 38 | 42  | 0        | 13 | 17 | 30 |    |  |  |  |
| 8          | 9  |          | 2                           | 20 | 27 | 5  | 45  | 1                           | 22 | 22 | 32 | 39  | 0        | 13 | 20 | 40 |    |  |  |  |
| 9          | 10 |          | 3                           | 3  | 37 | 40 | 46  | 2                           | 5  | 26 | 26 | 35  | 0        | 13 | 23 | 51 |    |  |  |  |
| 10         | 11 |          | 3                           | 16 | 48 | 15 | 48  | 2                           | 18 | 30 | 20 | 32  | 0        | 13 | 27 | 1  |    |  |  |  |
| 11         | 12 |          | 3                           | 29 | 58 | 50 | 49  | 3                           | 1  | 34 | 14 | 28  | 0        | 13 | 30 | 12 |    |  |  |  |
| 12         | 13 |          | 4                           | 13 | 9  | 25 | 50  | 3                           | 14 | 38 | 8  | 24  | 0        | 13 | 33 | 23 |    |  |  |  |
| 13         | 14 |          | 4                           | 26 | 20 | 0  | 52  | 3                           | 27 | 42 | 2  | 21  | 0        | 13 | 36 | 33 |    |  |  |  |
| 14         | 15 |          | 5                           | 9  | 30 | 35 | 53  | 4                           | 10 | 45 | 56 | 17  | 0        | 13 | 39 | 44 |    |  |  |  |
| 15         | 16 |          | 5                           | 22 | 41 | 10 | 55  | 4                           | 23 | 49 | 50 | 13  | 0        | 13 | 42 | 55 |    |  |  |  |
| 16         | 17 |          | 6                           | 5  | 51 | 45 | 56  | 5                           | 6  | 53 | 44 | 10  | 0        | 13 | 46 | 5  |    |  |  |  |
| 17         | 18 |          | 6                           | 19 | 2  | 20 | 57  | 5                           | 19 | 57 | 38 | 6   | 0        | 13 | 49 | 16 |    |  |  |  |
| 18         | 19 |          | 7                           | 2  | 12 | 55 | 59  | 6                           | 3  | 1  | 32 | 2   | 0        | 13 | 52 | 27 |    |  |  |  |
| 19         | 20 |          | 7                           | 15 | 23 | 31 | 0   | 6                           | 16 | 5  | 25 | 59  | 0        | 13 | 55 | 37 |    |  |  |  |
| 20         | 21 |          | 7                           | 28 | 34 | 6  | 1   | 6                           | 29 | 9  | 19 | 55  | 0        | 13 | 58 | 48 |    |  |  |  |
| 21         | 22 |          | 8                           | 11 | 44 | 41 | 3   | 7                           | 12 | 13 | 13 | 51  | 0        | 14 | 1  | 59 |    |  |  |  |
| 22         | 23 |          | 8                           | 24 | 55 | 16 | 4   | 7                           | 25 | 17 | 7  | 48  | 0        | 14 | 5  | 9  |    |  |  |  |
| 23         | 24 |          | 9                           | 8  | 5  | 51 | 5   | 8                           | 8  | 21 | 1  | 44  | 0        | 14 | 8  | 20 |    |  |  |  |
| 24         | 25 |          | 9                           | 21 | 16 | 26 | 7   | 8                           | 21 | 24 | 55 | 40  | 0        | 14 | 11 | 30 |    |  |  |  |
| 25         | 26 |          | 10                          | 4  | 27 | 1  | 8   | 9                           | 4  | 28 | 49 | 37  | 0        | 14 | 14 | 41 |    |  |  |  |
| 26         | 27 |          | 10                          | 17 | 37 | 36 | 10  | 9                           | 17 | 32 | 43 | 33  | 0        | 14 | 17 | 52 |    |  |  |  |
| 27         | 28 |          | 11                          | 0  | 48 | 11 | 11  | 10                          | 0  | 36 | 37 | 29  | 0        | 14 | 21 | 2  |    |  |  |  |
| 28         | 29 |          | 11                          | 13 | 58 | 46 | 12  | 10                          | 13 | 40 | 31 | 26  | 0        | 14 | 24 | 13 |    |  |  |  |
| 29         | 30 |          | 11                          | 27 | 9  | 21 | 14  | 10                          | 26 | 44 | 25 | 22  | 0        | 14 | 27 | 24 |    |  |  |  |
| 30         |    |          | 0                           | 10 | 19 | 56 | 15  | 11                          | 9  | 48 | 19 | 18  | 0        | 14 | 30 | 34 |    |  |  |  |



*Ad singulos dies anni.*

## OCTOBER.

| Morus ☉. |    |    |    |
|----------|----|----|----|
| S        | P  | i  | u  |
| 0        | 12 | 55 | 15 |
| 0        | 12 | 58 | 26 |
| 0        | 13 | 1  | 36 |
| 0        | 13 | 4  | 47 |
| 0        | 13 | 7  | 58 |
| 0        | 13 | 11 | 8  |
| 0        | 13 | 14 | 19 |
| 0        | 13 | 17 | 30 |
| 0        | 13 | 20 | 40 |
| 0        | 13 | 23 | 51 |
| 0        | 13 | 27 | 1  |
| 0        | 13 | 30 | 12 |
| 0        | 13 | 33 | 23 |
| 0        | 13 | 36 | 33 |
| 0        | 13 | 39 | 44 |
| 0        | 13 | 42 | 55 |
| 0        | 13 | 46 | 5  |
| 0        | 13 | 49 | 16 |
| 0        | 13 | 52 | 27 |
| 0        | 13 | 55 | 37 |
| 0        | 13 | 58 | 48 |
| 0        | 14 | 1  | 59 |
| 0        | 14 | 5  | 9  |
| 0        | 14 | 8  | 20 |
| 0        | 14 | 11 | 30 |
| 0        | 14 | 14 | 41 |
| 0        | 14 | 17 | 52 |
| 0        | 14 | 21 | 2  |
| 0        | 14 | 24 | 13 |
| 0        | 14 | 27 | 24 |
| 0        | 14 | 30 | 34 |

Et singulos dies anni.

# OCTOBER.

| Biflexilis | Communis | Longitudo ☉ ab Aequinoctio. |    |    |    |    | Anomalia, seu argumentum ☉. |    |    |    |    | Motus ☉. |   |    |    |    |
|------------|----------|-----------------------------|----|----|----|----|-----------------------------|----|----|----|----|----------|---|----|----|----|
|            |          | Dies                        | S  | P  | i  | u  | '''                         | S  | P  | i  | u  | '''      | S | P  | i  | u  |
|            | 1        | 1                           | 0  | 10 | 19 | 56 | 15                          | 11 | 9  | 48 | 19 | 18       | 0 | 14 | 30 | 34 |
|            | 2        | 2                           | 0  | 23 | 30 | 31 | 16                          | 11 | 22 | 52 | 13 | 15       | 0 | 14 | 33 | 45 |
|            | 3        | 3                           | 1  | 6  | 41 | 6  | 18                          | 0  | 5  | 56 | 7  | 11       | 0 | 14 | 36 | 56 |
|            | 4        | 4                           | 1  | 19 | 51 | 41 | 19                          | 0  | 19 | 0  | 1  | 8        | 0 | 14 | 40 | 6  |
|            | 5        | 5                           | 2  | 3  | 2  | 16 | 20                          | 1  | 2  | 3  | 55 | 4        | 0 | 14 | 43 | 17 |
|            | 6        | 6                           | 2  | 16 | 12 | 51 | 22                          | 1  | 15 | 7  | 49 | 0        | 0 | 14 | 46 | 27 |
|            | 7        | 7                           | 2  | 29 | 23 | 26 | 23                          | 1  | 28 | 11 | 42 | 57       | 0 | 14 | 49 | 38 |
|            | 8        | 8                           | 3  | 12 | 34 | 1  | 24                          | 2  | 11 | 15 | 36 | 53       | 0 | 14 | 52 | 49 |
|            | 9        | 9                           | 3  | 25 | 44 | 36 | 26                          | 2  | 24 | 19 | 30 | 49       | 0 | 14 | 55 | 59 |
|            | 10       | 10                          | 4  | 8  | 55 | 11 | 27                          | 3  | 7  | 23 | 24 | 46       | 0 | 14 | 59 | 10 |
|            | 11       | 11                          | 4  | 22 | 5  | 46 | 29                          | 3  | 20 | 27 | 18 | 42       | 0 | 15 | 2  | 21 |
|            | 12       | 12                          | 5  | 5  | 16 | 21 | 30                          | 4  | 3  | 31 | 12 | 38       | 0 | 15 | 5  | 31 |
|            | 13       | 13                          | 5  | 18 | 26 | 56 | 31                          | 4  | 16 | 35 | 6  | 35       | 0 | 15 | 8  | 42 |
|            | 14       | 14                          | 6  | 1  | 37 | 31 | 33                          | 4  | 29 | 39 | 0  | 31       | 0 | 15 | 11 | 53 |
|            | 15       | 15                          | 6  | 14 | 48 | 6  | 34                          | 5  | 12 | 42 | 54 | 28       | 0 | 15 | 15 | 3  |
|            | 16       | 16                          | 6  | 27 | 58 | 41 | 35                          | 5  | 25 | 46 | 48 | 24       | 0 | 15 | 18 | 14 |
|            | 17       | 17                          | 7  | 11 | 9  | 16 | 37                          | 6  | 8  | 50 | 42 | 20       | 0 | 15 | 21 | 25 |
|            | 18       | 18                          | 7  | 24 | 19 | 51 | 38                          | 6  | 21 | 54 | 36 | 17       | 0 | 15 | 24 | 35 |
|            | 19       | 19                          | 8  | 7  | 30 | 26 | 40                          | 7  | 4  | 58 | 30 | 13       | 0 | 15 | 27 | 46 |
|            | 20       | 20                          | 8  | 20 | 41 | 1  | 41                          | 7  | 18 | 2  | 24 | 9        | 0 | 15 | 30 | 56 |
|            | 21       | 21                          | 9  | 3  | 51 | 36 | 42                          | 8  | 1  | 6  | 18 | 6        | 0 | 15 | 34 | 7  |
|            | 22       | 22                          | 9  | 17 | 2  | 11 | 44                          | 8  | 14 | 10 | 12 | 2        | 0 | 15 | 37 | 18 |
|            | 23       | 23                          | 10 | 0  | 12 | 46 | 45                          | 8  | 27 | 14 | 5  | 58       | 0 | 15 | 40 | 28 |
|            | 24       | 24                          | 10 | 13 | 23 | 21 | 46                          | 9  | 10 | 17 | 59 | 55       | 0 | 15 | 43 | 39 |
|            | 25       | 25                          | 10 | 26 | 33 | 56 | 48                          | 9  | 23 | 21 | 53 | 51       | 0 | 15 | 46 | 50 |
|            | 26       | 26                          | 11 | 9  | 44 | 31 | 49                          | 10 | 6  | 25 | 47 | 47       | 0 | 15 | 50 | 0  |
|            | 27       | 27                          | 11 | 22 | 55 | 6  | 51                          | 10 | 19 | 29 | 41 | 44       | 0 | 15 | 53 | 11 |
|            | 28       | 28                          | 0  | 6  | 5  | 41 | 52                          | 11 | 2  | 33 | 35 | 40       | 0 | 15 | 56 | 21 |
|            | 29       | 29                          | 0  | 19 | 16 | 16 | 53                          | 11 | 15 | 37 | 29 | 36       | 0 | 15 | 59 | 32 |
|            | 30       | 30                          | 1  | 2  | 26 | 51 | 55                          | 11 | 28 | 41 | 23 | 33       | 0 | 16 | 2  | 43 |
|            | 31       | 31                          | 1  | 15 | 37 | 26 | 56                          | 0  | 11 | 45 | 17 | 29       | 0 | 16 | 5  | 53 |
|            |          |                             | 1  | 28 | 48 | 1  | 57                          | 0  | 24 | 49 | 11 | 25       | 0 | 16 | 9  | 4  |

Supplementum Ephemeridum,  
Tabula mediorum motuum Lunæ

| Bifexilis | Communis | NOVEMBER.                      |    |    |    |     |                                 |    |    |    |     |          |    |    |    |     |
|-----------|----------|--------------------------------|----|----|----|-----|---------------------------------|----|----|----|-----|----------|----|----|----|-----|
|           |          | Longitudo ☾ ab<br>Aequinoctio. |    |    |    |     | Anomalia, seu Ar<br>gumentum ☾. |    |    |    |     | Motus ☾. |    |    |    |     |
|           |          | S                              | P  | i  | ii | iii | S                               | P  | i  | ii | iii | S        | P  | i  | ii | iii |
|           | Dies     |                                |    |    |    |     |                                 |    |    |    |     |          |    |    |    |     |
|           | 1        | 1                              | 28 | 48 | 1  | 57  | 0                               | 24 | 49 | 11 | 25  | 0        | 16 | 9  | 4  |     |
| 1         | 2        | 2                              | 11 | 58 | 36 | 58  | 1                               | 7  | 53 | 5  | 22  | 0        | 16 | 12 | 15 |     |
| 2         | 3        | 2                              | 25 | 9  | 12 | 0   | 1                               | 20 | 56 | 59 | 18  | 0        | 16 | 15 | 25 |     |
| 3         | 4        | 3                              | 8  | 19 | 47 | 1   | 2                               | 4  | 0  | 53 | 14  | 0        | 16 | 18 | 36 |     |
| 4         | 5        | 3                              | 21 | 30 | 22 | 2   | 2                               | 17 | 4  | 47 | 11  | 0        | 16 | 21 | 47 |     |
| 5         | 6        | 4                              | 4  | 40 | 57 | 4   | 3                               | 0  | 8  | 41 | 7   | 0        | 16 | 24 | 57 |     |
| 6         | 7        | 4                              | 17 | 51 | 32 | 5   | 3                               | 13 | 12 | 35 | 3   | 0        | 16 | 28 | 8  |     |
| 7         | 8        | 5                              | 1  | 2  | 7  | 7   | 3                               | 26 | 16 | 29 | 0   | 0        | 16 | 31 | 19 |     |
| 8         | 9        | 5                              | 14 | 12 | 42 | 8   | 4                               | 9  | 20 | 22 | 56  | 0        | 16 | 34 | 29 |     |
| 9         | 10       | 5                              | 27 | 23 | 17 | 9   | 4                               | 22 | 24 | 16 | 52  | 0        | 16 | 37 | 40 |     |
| 10        | 11       | 6                              | 10 | 33 | 52 | 11  | 5                               | 5  | 28 | 10 | 49  | 0        | 16 | 40 | 50 |     |
| 11        | 12       | 6                              | 23 | 44 | 27 | 12  | 5                               | 18 | 32 | 4  | 45  | 0        | 16 | 44 | 1  |     |
| 12        | 13       | 7                              | 6  | 55 | 2  | 13  | 6                               | 1  | 35 | 58 | 41  | 0        | 16 | 47 | 12 |     |
| 13        | 14       | 7                              | 20 | 5  | 37 | 15  | 6                               | 14 | 39 | 52 | 38  | 0        | 16 | 50 | 22 |     |
| 14        | 15       | 8                              | 3  | 16 | 12 | 16  | 6                               | 27 | 43 | 46 | 34  | 0        | 16 | 53 | 33 |     |
| 15        | 16       | 8                              | 16 | 26 | 47 | 18  | 7                               | 10 | 47 | 40 | 30  | 0        | 16 | 56 | 44 |     |
| 16        | 17       | 9                              | 29 | 37 | 22 | 19  | 7                               | 23 | 51 | 34 | 27  | 0        | 16 | 59 | 54 |     |
| 17        | 18       | 9                              | 12 | 47 | 57 | 20  | 8                               | 6  | 55 | 28 | 23  | 0        | 17 | 3  | 5  |     |
| 18        | 19       | 9                              | 25 | 58 | 32 | 22  | 8                               | 19 | 59 | 22 | 19  | 0        | 17 | 6  | 16 |     |
| 19        | 20       | 10                             | 9  | 9  | 7  | 23  | 9                               | 3  | 3  | 16 | 16  | 0        | 17 | 9  | 26 |     |
| 20        | 21       | 10                             | 22 | 19 | 42 | 24  | 9                               | 16 | 7  | 10 | 12  | 0        | 17 | 12 | 37 |     |
| 21        | 22       | 11                             | 5  | 30 | 17 | 26  | 9                               | 29 | 11 | 4  | 8   | 0        | 17 | 15 | 48 |     |
| 22        | 23       | 11                             | 18 | 40 | 52 | 27  | 10                              | 12 | 14 | 58 | 5   | 0        | 17 | 18 | 58 |     |
| 23        | 24       | 0                              | 1  | 51 | 27 | 28  | 10                              | 25 | 18 | 52 | 1   | 0        | 17 | 22 | 9  |     |
| 24        | 25       | 0                              | 15 | 2  | 2  | 30  | 11                              | 8  | 22 | 45 | 57  | 0        | 17 | 25 | 20 |     |
| 25        | 26       | 0                              | 28 | 12 | 37 | 31  | 11                              | 21 | 26 | 39 | 54  | 0        | 17 | 28 | 30 |     |
| 26        | 27       | 1                              | 11 | 23 | 12 | 33  | 0                               | 4  | 30 | 33 | 50  | 0        | 17 | 31 | 41 |     |
| 27        | 28       | 1                              | 24 | 33 | 47 | 34  | 0                               | 17 | 34 | 27 | 46  | 0        | 17 | 35 | 51 |     |
| 28        | 29       | 2                              | 7  | 44 | 22 | 35  | 1                               | 0  | 38 | 21 | 43  | 0        | 17 | 38 | 2  |     |
| 29        | 30       | 2                              | 20 | 54 | 57 | 37  | 1                               | 13 | 42 | 15 | 39  | 0        | 17 | 41 | 12 |     |
| 30        |          | 3                              | 4  | 5  | 32 | 38  | 1                               | 26 | 46 | 9  | 35  | 0        | 17 | 44 | 23 |     |



## DECEMBER.

| Motus ☿. |    |    |   | Dies | Communis | Longitudo ☿ ab Aequinoctio. |    |    |    |    | Anomalia, seu Argumentum ☿. |    |    |    |    | Motus ☿. |    |    |   |
|----------|----|----|---|------|----------|-----------------------------|----|----|----|----|-----------------------------|----|----|----|----|----------|----|----|---|
| S        | P  | i  | u |      |          | S                           | P  | i  | u  | u  | S                           | P  | i  | u  | u  | S        | P  | i  | u |
| 16       | 9  | 4  |   | 1    | 1        | 3                           | 4  | 5  | 32 | 38 | 1                           | 26 | 46 | 9  | 35 | 17       | 44 | 23 |   |
| 16       | 12 | 15 |   | 2    | 2        | 3                           | 17 | 16 | 7  | 39 | 2                           | 9  | 50 | 3  | 32 | 17       | 47 | 34 |   |
| 16       | 15 | 25 |   | 3    | 3        | 4                           | 0  | 26 | 42 | 41 | 2                           | 22 | 53 | 57 | 28 | 17       | 50 | 44 |   |
| 16       | 18 | 36 |   | 4    | 4        | 4                           | 13 | 37 | 17 | 42 | 3                           | 5  | 57 | 51 | 24 | 17       | 53 | 55 |   |
| 16       | 21 | 47 |   | 5    | 5        | 4                           | 26 | 47 | 52 | 43 | 3                           | 19 | 1  | 45 | 21 | 17       | 57 | 6  |   |
| 16       | 24 | 57 |   | 6    | 6        | 5                           | 9  | 58 | 27 | 45 | 4                           | 2  | 5  | 39 | 17 | 18       | 0  | 16 |   |
| 16       | 28 | 8  |   | 7    | 7        | 5                           | 23 | 9  | 2  | 46 | 4                           | 15 | 9  | 33 | 13 | 18       | 3  | 27 |   |
| 16       | 31 | 19 |   | 8    | 8        | 6                           | 6  | 19 | 37 | 48 | 4                           | 28 | 13 | 27 | 10 | 18       | 6  | 38 |   |
| 16       | 34 | 29 |   | 9    | 9        | 6                           | 19 | 30 | 12 | 49 | 5                           | 11 | 17 | 21 | 6  | 18       | 9  | 48 |   |
| 16       | 37 | 40 |   | 10   | 10       | 7                           | 2  | 40 | 47 | 50 | 5                           | 24 | 21 | 15 | 2  | 18       | 12 | 59 |   |
| 16       | 40 | 50 |   | 11   | 11       | 7                           | 15 | 51 | 22 | 52 | 6                           | 7  | 25 | 8  | 59 | 18       | 16 | 10 |   |
| 16       | 44 | 1  |   | 12   | 12       | 7                           | 29 | 1  | 57 | 53 | 6                           | 20 | 29 | 2  | 55 | 18       | 19 | 20 |   |
| 16       | 47 | 12 |   | 13   | 13       | 8                           | 12 | 12 | 32 | 54 | 7                           | 3  | 32 | 56 | 51 | 18       | 22 | 31 |   |
| 16       | 50 | 22 |   | 14   | 14       | 8                           | 25 | 23 | 7  | 56 | 7                           | 16 | 36 | 50 | 48 | 18       | 25 | 42 |   |
| 16       | 53 | 33 |   | 15   | 15       | 9                           | 8  | 33 | 42 | 57 | 7                           | 29 | 40 | 44 | 44 | 18       | 28 | 52 |   |
| 16       | 56 | 44 |   | 16   | 16       | 9                           | 21 | 44 | 17 | 59 | 8                           | 12 | 44 | 38 | 41 | 18       | 32 | 3  |   |
| 16       | 59 | 54 |   | 17   | 17       | 10                          | 4  | 54 | 53 | 0  | 8                           | 25 | 48 | 32 | 37 | 18       | 35 | 14 |   |
| 17       | 3  | 5  |   | 18   | 18       | 10                          | 18 | 5  | 28 | 1  | 9                           | 8  | 52 | 26 | 33 | 18       | 38 | 24 |   |
| 17       | 6  | 16 |   | 19   | 19       | 11                          | 1  | 16 | 3  | 3  | 9                           | 21 | 56 | 20 | 30 | 18       | 41 | 35 |   |
| 17       | 9  | 26 |   | 20   | 20       | 11                          | 14 | 26 | 38 | 4  | 10                          | 5  | 0  | 14 | 26 | 18       | 44 | 46 |   |
| 17       | 12 | 37 |   | 21   | 21       | 11                          | 27 | 37 | 13 | 5  | 10                          | 18 | 4  | 8  | 22 | 18       | 47 | 56 |   |
| 17       | 15 | 48 |   | 22   | 22       | 0                           | 10 | 47 | 48 | 7  | 11                          | 1  | 8  | 2  | 19 | 18       | 51 | 7  |   |
| 17       | 18 | 58 |   | 23   | 23       | 0                           | 23 | 58 | 23 | 8  | 11                          | 14 | 11 | 56 | 15 | 18       | 54 | 18 |   |
| 17       | 22 | 9  |   | 24   | 24       | 1                           | 7  | 8  | 58 | 9  | 11                          | 27 | 15 | 50 | 11 | 18       | 57 | 28 |   |
| 17       | 25 | 20 |   | 25   | 25       | 1                           | 20 | 19 | 33 | 11 | 0                           | 10 | 19 | 44 | 8  | 19       | 0  | 39 |   |
| 17       | 28 | 30 |   | 26   | 26       | 2                           | 3  | 30 | 8  | 12 | 0                           | 23 | 23 | 38 | 4  | 19       | 3  | 50 |   |
| 17       | 31 | 41 |   | 27   | 27       | 2                           | 16 | 40 | 43 | 14 | 1                           | 6  | 27 | 32 | 0  | 19       | 7  | 0  |   |
| 17       | 35 | 51 |   | 28   | 28       | 2                           | 29 | 51 | 18 | 15 | 1                           | 19 | 31 | 25 | 57 | 19       | 10 | 11 |   |
| 17       | 38 | 2  |   | 29   | 29       | 3                           | 13 | 1  | 53 | 16 | 2                           | 2  | 35 | 19 | 53 | 19       | 13 | 21 |   |
| 17       | 41 | 12 |   | 30   | 30       | 3                           | 26 | 12 | 28 | 18 | 2                           | 15 | 39 | 13 | 50 | 19       | 16 | 32 |   |
| 17       | 44 | 23 |   | 31   | 31       | 4                           | 9  | 23 | 3  | 19 | 2                           | 28 | 43 | 7  | 46 | 19       | 19 | 43 |   |
|          |    |    |   | 31   | 31       | 4                           | 22 | 33 | 38 | 20 | 3                           | 11 | 47 | 1  | 42 | 19       | 22 | 53 |   |

|        | Longitudo ☾ ab<br>Aequinoctio. |    |     |      |      | Anomalia, seu Ar<br>gumentum ☾. |    |     |      |      | Motus ☾. |    |     |      |
|--------|--------------------------------|----|-----|------|------|---------------------------------|----|-----|------|------|----------|----|-----|------|
| Horę   | S                              | P  | i   | ii   | iii  | S                               | P  | i   | ii   | iii  | S        | P  | i   | ii   |
| Scrui. | P                              | i  | ii  | iii  | iiii | P                               | i  | ii  | iii  | iiii | P        | i  | ii  | iii  |
| Sec.   | i                              | ii | iii | iiii | v    | i                               | ii | iii | iiii | v    | i        | ii | iii | iiii |
| 1      | 0                              | 0  | 32  | 56   | 28   | 0                               | 0  | 32  | 39   | 45   | 0        | 0  | 0   | 8    |
| 2      | 0                              | 1  | 5   | 52   | 55   | 0                               | 1  | 5   | 19   | 30   | 0        | 0  | 0   | 16   |
| 3      | 0                              | 1  | 38  | 49   | 23   | 0                               | 1  | 37  | 59   | 15   | 0        | 0  | 0   | 24   |
| 4      | 0                              | 2  | 11  | 45   | 50   | 0                               | 2  | 10  | 38   | 59   | 0        | 0  | 0   | 32   |
| 5      | 0                              | 2  | 44  | 42   | 18   | 0                               | 2  | 43  | 18   | 44   | 0        | 0  | 0   | 40   |
| 6      | 0                              | 3  | 17  | 38   | 45   | 0                               | 3  | 15  | 58   | 29   | 0        | 0  | 0   | 48   |
| 7      | 0                              | 3  | 50  | 35   | 13   | 0                               | 3  | 48  | 38   | 14   | 0        | 0  | 0   | 56   |
| 8      | 0                              | 4  | 23  | 31   | 40   | 0                               | 4  | 21  | 17   | 59   | 0        | 0  | 1   | 4    |
| 9      | 0                              | 4  | 56  | 28   | 8    | 0                               | 4  | 53  | 57   | 48   | 0        | 0  | 1   | 12   |
| 10     | 0                              | 5  | 29  | 24   | 36   | 0                               | 5  | 26  | 37   | 28   | 0        | 0  | 1   | 19   |
| 11     | 0                              | 6  | 2   | 21   | 3    | 0                               | 5  | 59  | 17   | 13   | 0        | 0  | 1   | 27   |
| 12     | 0                              | 6  | 35  | 17   | 31   | 0                               | 6  | 31  | 56   | 58   | 0        | 0  | 1   | 35   |
| 13     | 0                              | 7  | 8   | 13   | 58   | 0                               | 7  | 4   | 36   | 43   | 0        | 0  | 1   | 43   |
| 14     | 0                              | 7  | 41  | 10   | 26   | 0                               | 7  | 37  | 16   | 28   | 0        | 0  | 1   | 51   |
| 15     | 0                              | 8  | 14  | 6    | 53   | 0                               | 8  | 9   | 56   | 13   | 0        | 0  | 1   | 59   |
| 16     | 0                              | 8  | 47  | 3    | 21   | 0                               | 8  | 42  | 35   | 58   | 0        | 0  | 2   | 7    |
| 17     | 0                              | 9  | 19  | 59   | 48   | 0                               | 9  | 15  | 15   | 42   | 0        | 0  | 2   | 15   |
| 18     | 0                              | 9  | 52  | 56   | 16   | 0                               | 9  | 47  | 55   | 27   | 0        | 0  | 2   | 23   |
| 19     | 0                              | 10 | 25  | 52   | 44   | 0                               | 10 | 20  | 35   | 12   | 0        | 0  | 2   | 31   |
| 20     | 0                              | 10 | 58  | 49   | 11   | 0                               | 10 | 53  | 14   | 57   | 0        | 0  | 2   | 39   |
| 21     | 0                              | 11 | 31  | 45   | 39   | 0                               | 11 | 25  | 54   | 42   | 0        | 0  | 2   | 47   |
| 22     | 0                              | 12 | 4   | 42   | 6    | 0                               | 11 | 58  | 34   | 27   | 0        | 0  | 2   | 55   |
| 23     | 0                              | 12 | 37  | 38   | 34   | 0                               | 12 | 31  | 14   | 12   | 0        | 0  | 3   | 3    |
| 24     | 0                              | 13 | 10  | 35   | 1    | 0                               | 13 | 3   | 53   | 56   | 0        | 0  | 3   | 11   |
| 25     | 0                              | 13 | 43  | 31   | 29   | 0                               | 13 | 36  | 33   | 41   | 0        | 0  | 3   | 19   |
| 26     | 0                              | 14 | 16  | 27   | 56   | 0                               | 14 | 9   | 13   | 26   | 0        | 0  | 3   | 27   |
| 27     | 0                              | 14 | 49  | 24   | 24   | 0                               | 14 | 41  | 53   | 11   | 0        | 0  | 3   | 35   |
| 28     | 0                              | 15 | 22  | 20   | 52   | 0                               | 15 | 14  | 32   | 56   | 0        | 0  | 3   | 43   |
| 29     | 0                              | 15 | 55  | 17   | 19   | 0                               | 15 | 47  | 12   | 41   | 0        | 0  | 3   | 51   |
| 30     | 0                              | 16 | 28  | 13   | 47   | 0                               | 16 | 19  | 52   | 25   | 0        | 0  | 3   | 58   |



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In baris & minutis.

| Motus ☉. |   |   |    |
|----------|---|---|----|
| P        | i | u | u  |
| 1        | u | u | u  |
| 1        | u | u | u  |
| 0        | 0 | 0 | 8  |
| 0        | 0 | 0 | 16 |
| 0        | 0 | 0 | 24 |
| 0        | 0 | 0 | 32 |
| 0        | 0 | 0 | 40 |
| 0        | 0 | 0 | 48 |
| 0        | 0 | 0 | 56 |
| 0        | 0 | 1 | 4  |
| 0        | 0 | 1 | 12 |
| 0        | 0 | 1 | 19 |
| 0        | 0 | 1 | 27 |
| 0        | 0 | 1 | 35 |
| 0        | 0 | 1 | 43 |
| 0        | 0 | 1 | 51 |
| 0        | 0 | 1 | 59 |
| 0        | 0 | 2 | 7  |
| 0        | 0 | 2 | 15 |
| 0        | 0 | 2 | 23 |
| 0        | 0 | 2 | 31 |
| 0        | 0 | 2 | 39 |
| 0        | 0 | 2 | 47 |
| 0        | 0 | 2 | 55 |
| 0        | 0 | 3 | 3  |
| 0        | 0 | 3 | 11 |
| 0        | 0 | 3 | 19 |
| 0        | 0 | 3 | 27 |
| 0        | 0 | 3 | 35 |
| 0        | 0 | 3 | 43 |
| 0        | 0 | 3 | 51 |
| 0        | 0 | 3 | 58 |

| Hore<br>Min.<br>Sec. | Longitudo ☉ ab<br>Acquinoctio. |    |    |    |    | Anomalia, seu Ar<br>gumentum ☉. |    |    |    |    | Motus ☉. |   |   |    |
|----------------------|--------------------------------|----|----|----|----|---------------------------------|----|----|----|----|----------|---|---|----|
|                      | S                              | P  | i  | u  | u  | S                               | P  | i  | u  | u  | S        | P | i | u  |
|                      | P                              | i  | u  | u  | u  | P                               | i  | u  | u  | u  | P        | i | u | u  |
| 31                   | 0                              | 17 | 1  | 10 | 14 | 0                               | 16 | 52 | 32 | 10 | 0        | 0 | 4 | 6  |
| 32                   | 0                              | 17 | 34 | 6  | 42 | 0                               | 17 | 25 | 11 | 55 | 0        | 0 | 4 | 14 |
| 33                   | 0                              | 18 | 7  | 3  | 9  | 0                               | 17 | 57 | 51 | 40 | 0        | 0 | 4 | 22 |
| 34                   | 0                              | 18 | 39 | 59 | 37 | 0                               | 18 | 30 | 31 | 25 | 0        | 0 | 4 | 30 |
| 35                   | 0                              | 19 | 12 | 56 | 4  | 0                               | 19 | 3  | 11 | 10 | 0        | 0 | 4 | 38 |
| 36                   | 0                              | 19 | 45 | 52 | 32 | 0                               | 19 | 35 | 50 | 55 | 0        | 0 | 4 | 46 |
| 37                   | 0                              | 20 | 18 | 48 | 59 | 0                               | 20 | 8  | 30 | 39 | 0        | 0 | 4 | 54 |
| 38                   | 0                              | 20 | 51 | 45 | 27 | 0                               | 20 | 41 | 10 | 24 | 0        | 0 | 5 | 2  |
| 39                   | 0                              | 21 | 24 | 41 | 55 | 0                               | 21 | 13 | 50 | 9  | 0        | 0 | 5 | 10 |
| 40                   | 0                              | 21 | 57 | 38 | 22 | 0                               | 21 | 46 | 29 | 54 | 0        | 0 | 5 | 18 |
| 41                   | 0                              | 22 | 30 | 34 | 50 | 0                               | 22 | 19 | 9  | 39 | 0        | 0 | 5 | 26 |
| 42                   | 0                              | 23 | 3  | 31 | 17 | 0                               | 22 | 51 | 49 | 24 | 0        | 0 | 5 | 34 |
| 43                   | 0                              | 23 | 36 | 27 | 45 | 0                               | 23 | 24 | 29 | 8  | 0        | 0 | 5 | 42 |
| 44                   | 0                              | 24 | 9  | 24 | 12 | 0                               | 23 | 57 | 8  | 53 | 0        | 0 | 5 | 50 |
| 45                   | 0                              | 24 | 42 | 20 | 40 | 0                               | 24 | 29 | 48 | 38 | 0        | 0 | 5 | 58 |
| 46                   | 0                              | 25 | 15 | 17 | 8  | 0                               | 25 | 2  | 28 | 23 | 0        | 0 | 6 | 6  |
| 47                   | 0                              | 25 | 48 | 13 | 35 | 0                               | 25 | 35 | 8  | 8  | 0        | 0 | 6 | 14 |
| 48                   | 0                              | 26 | 21 | 10 | 3  | 0                               | 26 | 7  | 47 | 53 | 0        | 0 | 6 | 22 |
| 49                   | 0                              | 26 | 54 | 6  | 30 | 0                               | 26 | 40 | 27 | 38 | 0        | 0 | 6 | 29 |
| 50                   | 0                              | 27 | 27 | 2  | 58 | 0                               | 27 | 13 | 7  | 22 | 0        | 0 | 6 | 37 |
| 51                   | 0                              | 27 | 59 | 59 | 25 | 0                               | 27 | 45 | 47 | 7  | 0        | 0 | 6 | 45 |
| 52                   | 0                              | 28 | 32 | 55 | 53 | 0                               | 28 | 18 | 26 | 52 | 0        | 0 | 6 | 53 |
| 53                   | 0                              | 29 | 5  | 52 | 21 | 0                               | 28 | 51 | 6  | 37 | 0        | 0 | 7 | 1  |
| 54                   | 0                              | 29 | 38 | 48 | 48 | 0                               | 29 | 23 | 46 | 22 | 0        | 0 | 7 | 9  |
| 55                   | 0                              | 30 | 11 | 45 | 16 | 0                               | 29 | 56 | 26 | 7  | 0        | 0 | 7 | 17 |
| 56                   | 0                              | 30 | 44 | 41 | 43 | 0                               | 30 | 29 | 5  | 51 | 0        | 0 | 7 | 25 |
| 57                   | 0                              | 31 | 17 | 38 | 11 | 0                               | 31 | 1  | 45 | 36 | 0        | 0 | 7 | 33 |
| 58                   | 0                              | 31 | 50 | 34 | 38 | 0                               | 31 | 34 | 25 | 21 | 0        | 0 | 7 | 41 |
| 59                   | 0                              | 32 | 23 | 31 | 6  | 0                               | 32 | 7  | 5  | 6  | 0        | 0 | 7 | 49 |
| 60                   | 0                              | 32 | 56 | 27 | 33 | 0                               | 32 | 39 | 44 | 51 | 0        | 0 | 7 | 57 |

| Anom. | Subtrahe |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    | Anom. |  |
|-------|----------|----|----|---|----|----|---|----|----|---|----|----|---|----|----|---|----|----|-------|--|
|       | 0        |    |    | 1 |    |    | 2 |    |    | 3 |    |    | 4 |    |    | 5 |    |    |       |  |
|       | P        | i  | u  | P | i  | u  | P | i  | u  | P | i  | u  | P | i  | u  | P | i  | u  |       |  |
| 0     | 0        | 0  | 0  | 2 | 25 | 47 | 4 | 14 | 51 | 4 | 58 | 20 | 4 | 22 | 20 | 2 | 33 | 18 | 30    |  |
| 10    | 0        | 0  | 51 | 2 | 26 | 31 | 4 | 15 | 17 | 4 | 58 | 22 | 4 | 21 | 55 | 2 | 32 | 32 | 50    |  |
| 20    | 0        | 1  | 41 | 2 | 27 | 16 | 4 | 15 | 44 | 4 | 58 | 23 | 4 | 21 | 29 | 2 | 31 | 46 | 40    |  |
| 30    | 0        | 2  | 32 | 2 | 28 | 0  | 4 | 16 | 10 | 4 | 58 | 24 | 4 | 21 | 4  | 2 | 31 | 0  | 30    |  |
| 40    | 0        | 3  | 22 | 2 | 28 | 44 | 4 | 16 | 37 | 4 | 58 | 25 | 4 | 20 | 38 | 2 | 30 | 14 | 20    |  |
| 50    | 0        | 4  | 13 | 2 | 29 | 28 | 4 | 17 | 3  | 4 | 58 | 25 | 4 | 20 | 12 | 2 | 29 | 27 | 10    |  |
| I     | 0        | 5  | 4  | 2 | 30 | 12 | 4 | 17 | 29 | 4 | 58 | 26 | 4 | 19 | 46 | 2 | 28 | 41 | 29    |  |
| 10    | 0        | 5  | 54 | 2 | 30 | 56 | 4 | 17 | 55 | 4 | 58 | 26 | 4 | 19 | 20 | 2 | 27 | 54 | 50    |  |
| 20    | 0        | 6  | 45 | 2 | 31 | 39 | 4 | 18 | 21 | 4 | 58 | 27 | 4 | 18 | 54 | 2 | 27 | 8  | 40    |  |
| 30    | 0        | 7  | 36 | 2 | 32 | 23 | 4 | 18 | 46 | 4 | 58 | 27 | 4 | 18 | 27 | 2 | 26 | 21 | 30    |  |
| 40    | 0        | 8  | 26 | 2 | 33 | 7  | 4 | 19 | 12 | 4 | 58 | 27 | 4 | 18 | 1  | 2 | 25 | 35 | 20    |  |
| 50    | 0        | 9  | 17 | 2 | 33 | 50 | 4 | 19 | 37 | 4 | 58 | 27 | 4 | 17 | 34 | 2 | 24 | 48 | 10    |  |
| 2     | 0        | 10 | 8  | 1 | 34 | 34 | 4 | 20 | 2  | 4 | 58 | 27 | 4 | 17 | 7  | 2 | 24 | 1  | 28    |  |
| 10    | 0        | 10 | 58 | 2 | 35 | 17 | 4 | 20 | 27 | 4 | 58 | 26 | 4 | 16 | 40 | 2 | 23 | 14 | 50    |  |
| 20    | 0        | 11 | 49 | 2 | 36 | 1  | 4 | 20 | 52 | 4 | 58 | 26 | 4 | 16 | 13 | 2 | 22 | 27 | 40    |  |
| 30    | 0        | 12 | 40 | 2 | 36 | 44 | 4 | 21 | 17 | 4 | 58 | 25 | 4 | 15 | 46 | 2 | 21 | 40 | 30    |  |
| 40    | 0        | 13 | 30 | 2 | 37 | 27 | 4 | 21 | 42 | 4 | 58 | 24 | 4 | 15 | 19 | 2 | 20 | 53 | 20    |  |
| 50    | 0        | 14 | 21 | 2 | 38 | 11 | 4 | 22 | 6  | 4 | 58 | 23 | 4 | 14 | 51 | 2 | 20 | 5  | 10    |  |
| 3     | 0        | 15 | 12 | 2 | 38 | 54 | 4 | 22 | 31 | 4 | 58 | 22 | 4 | 14 | 24 | 2 | 19 | 18 | 27    |  |
| 10    | 0        | 16 | 2  | 2 | 39 | 37 | 4 | 22 | 55 | 4 | 58 | 21 | 4 | 13 | 56 | 2 | 18 | 30 | 50    |  |
| 20    | 0        | 16 | 53 | 2 | 40 | 20 | 4 | 23 | 20 | 4 | 58 | 20 | 4 | 13 | 28 | 2 | 17 | 43 | 40    |  |
| 30    | 0        | 17 | 44 | 2 | 41 | 3  | 4 | 23 | 44 | 4 | 58 | 19 | 4 | 13 | 0  | 2 | 16 | 55 | 30    |  |
| 40    | 0        | 18 | 34 | 2 | 41 | 46 | 4 | 24 | 8  | 4 | 58 | 17 | 4 | 12 | 32 | 2 | 16 | 8  | 20    |  |
| 50    | 0        | 19 | 25 | 2 | 42 | 28 | 4 | 24 | 32 | 4 | 58 | 16 | 4 | 12 | 4  | 2 | 15 | 20 | 10    |  |
| 4     | 0        | 20 | 16 | 2 | 43 | 11 | 4 | 24 | 55 | 4 | 58 | 14 | 4 | 11 | 36 | 2 | 14 | 33 | 26    |  |
| 10    | 0        | 21 | 7  | 2 | 43 | 53 | 4 | 25 | 18 | 4 | 58 | 12 | 4 | 11 | 7  | 2 | 13 | 45 | 50    |  |
| 20    | 0        | 21 | 57 | 2 | 44 | 36 | 4 | 25 | 42 | 4 | 58 | 10 | 4 | 10 | 39 | 2 | 12 | 57 | 40    |  |
| 30    | 0        | 22 | 48 | 2 | 45 | 18 | 4 | 26 | 5  | 4 | 58 | 7  | 4 | 10 | 10 | 2 | 12 | 9  | 30    |  |
| 40    | 0        | 23 | 39 | 2 | 46 | 0  | 4 | 26 | 28 | 4 | 58 | 5  | 4 | 9  | 41 | 2 | 11 | 21 | 20    |  |
| 50    | 0        | 24 | 30 | 2 | 46 | 43 | 4 | 26 | 51 | 4 | 58 | 2  | 4 | 9  | 12 | 2 | 10 | 33 | 10    |  |
| 5     | 0        | 25 | 20 | 2 | 47 | 25 | 4 | 27 | 14 | 4 | 57 | 59 | 4 | 8  | 43 | 2 | 9  | 45 | 25    |  |
| 10    | 0        | 26 | 11 | 2 | 48 | 7  | 4 | 27 | 37 | 4 | 57 | 56 | 4 | 8  | 13 | 2 | 8  | 56 | 50    |  |
| 20    | 0        | 27 | 1  | 2 | 48 | 49 | 4 | 27 | 59 | 4 | 57 | 52 | 4 | 7  | 44 | 2 | 8  | 8  | 40    |  |
| 30    | 0        | 27 | 52 | 2 | 49 | 31 | 4 | 28 | 22 | 4 | 57 | 49 | 4 | 7  | 14 | 2 | 7  | 20 | 30    |  |
| 40    | 0        | 28 | 42 | 2 | 50 | 13 | 4 | 28 | 44 | 4 | 57 | 45 | 4 | 6  | 45 | 2 | 6  | 31 | 20    |  |
| 50    | 0        | 29 | 33 | 2 | 50 | 55 | 4 | 29 | 7  | 4 | 57 | 41 | 4 | 6  | 15 | 2 | 5  | 43 | 10    |  |
| 6     | 0        | 30 | 23 | 2 | 51 | 37 | 4 | 29 | 29 | 4 | 57 | 37 | 4 | 5  | 45 | 2 | 4  | 55 | 24    |  |
| 11    |          |    | 10 |   |    | 9  |   |    | 8  |   |    | 7  |   |    | 6  |   |    |    |       |  |
| Adde  |          |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |       |  |



| 5     | Anom. |
|-------|-------|
| 33 18 | 30    |
| 32 32 | 50    |
| 31 46 | 40    |
| 31 0  | 30    |
| 30 14 | 20    |
| 29 27 | 10    |
| 28 41 | 29    |
| 27 54 | 50    |
| 27 8  | 40    |
| 26 21 | 30    |
| 25 35 | 20    |
| 24 48 | 10    |
| 24 1  | 28    |
| 23 14 | 50    |
| 22 27 | 40    |
| 21 40 | 30    |
| 20 53 | 20    |
| 20 5  | 10    |
| 19 18 | 27    |
| 18 30 | 50    |
| 17 43 | 40    |
| 16 55 | 30    |
| 16 8  | 20    |
| 15 20 | 10    |
| 14 33 | 26    |
| 13 45 | 50    |
| 12 57 | 40    |
| 12 9  | 30    |
| 11 21 | 20    |
| 10 33 | 10    |
| 9 45  | 25    |
| 8 56  | 50    |
| 8 8   | 40    |
| 7 20  | 30    |
| 6 31  | 20    |
| 5 43  | 10    |
| 4 55  | 24    |
| 6     |       |

| Anom. | Subtrahe |         |         |         |         |         | Anom. |
|-------|----------|---------|---------|---------|---------|---------|-------|
|       | 0        | 1       | 2       | 3       | 4       | 5       |       |
|       | P I "    | P I "   | P I "   | P I "   | P I "   | P I "   |       |
| 6     | 0 30 23  | 2 51 37 | 4 29 29 | 4 57 37 | 4 5 45  | 2 4 55  | 24    |
| 10    | 0 31 13  | 2 52 18 | 4 29 51 | 4 57 33 | 4 5 15  | 2 4 6   | 50    |
| 20    | 0 32 4   | 2 53 0  | 4 30 13 | 4 57 28 | 4 4 45  | 2 3 18  | 40    |
| 30    | 0 32 54  | 2 53 41 | 4 30 35 | 4 57 24 | 4 4 14  | 2 2 29  | 30    |
| 40    | 0 33 45  | 2 54 23 | 4 30 56 | 4 57 19 | 4 3 44  | 2 1 40  | 20    |
| 50    | 0 34 35  | 2 55 4  | 4 31 18 | 4 57 15 | 4 3 13  | 2 0 51  | 10    |
| 7     | 0 35 26  | 2 55 46 | 4 31 39 | 4 57 10 | 4 2 42  | 2 0 2   | 23    |
| 10    | 0 36 16  | 2 56 27 | 4 32 0  | 4 57 5  | 4 2 11  | 1 59 13 | 50    |
| 20    | 0 37 7   | 2 57 8  | 4 32 21 | 4 57 0  | 4 1 40  | 1 58 24 | 40    |
| 30    | 0 37 57  | 2 57 49 | 4 32 42 | 4 56 55 | 4 1 9   | 1 57 35 | 30    |
| 40    | 0 38 47  | 2 58 30 | 4 33 3  | 4 56 49 | 4 0 38  | 1 56 45 | 20    |
| 50    | 0 39 38  | 2 59 11 | 4 33 23 | 4 56 44 | 4 0 6   | 1 55 56 | 10    |
| 8     | 0 40 28  | 2 59 52 | 4 33 44 | 4 56 38 | 3 59 35 | 1 55 7  | 22    |
| 10    | 0 41 18  | 3 0 32  | 4 34 4  | 4 56 32 | 3 59 3  | 1 54 17 | 50    |
| 20    | 0 42 8   | 3 1 13  | 4 34 25 | 4 56 26 | 3 58 31 | 1 53 28 | 40    |
| 30    | 0 42 59  | 3 1 53  | 4 34 45 | 4 56 20 | 3 57 59 | 1 52 38 | 30    |
| 40    | 0 43 49  | 3 2 33  | 4 35 5  | 4 56 14 | 3 57 27 | 1 51 49 | 20    |
| 50    | 0 44 39  | 3 3 14  | 4 35 25 | 4 56 7  | 3 56 55 | 1 50 59 | 10    |
| 9     | 0 45 29  | 3 3 54  | 4 35 44 | 4 56 1  | 3 56 23 | 1 50 9  | 21    |
| 10    | 0 46 19  | 3 4 34  | 4 36 3  | 4 55 54 | 3 55 50 | 1 49 19 | 50    |
| 20    | 0 47 9   | 3 5 14  | 4 36 23 | 4 55 47 | 3 55 18 | 1 48 29 | 40    |
| 30    | 0 47 59  | 3 5 54  | 4 36 42 | 4 55 40 | 3 54 45 | 1 47 39 | 30    |
| 40    | 0 48 50  | 3 6 33  | 4 37 1  | 4 55 33 | 3 54 12 | 1 46 48 | 20    |
| 50    | 0 49 40  | 3 7 13  | 4 37 20 | 4 55 26 | 3 53 39 | 1 45 58 | 10    |
| 10    | 0 50 30  | 3 7 53  | 4 37 39 | 4 55 18 | 3 53 6  | 1 45 8  | 20    |
| 10    | 0 51 20  | 3 8 32  | 4 37 58 | 4 55 11 | 3 52 33 | 1 44 17 | 50    |
| 20    | 0 52 10  | 3 9 11  | 4 38 17 | 4 55 3  | 3 52 0  | 1 43 27 | 40    |
| 30    | 0 53 0   | 3 9 51  | 4 38 35 | 4 54 55 | 3 51 26 | 1 42 36 | 30    |
| 40    | 0 53 50  | 3 10 30 | 4 38 54 | 4 54 47 | 3 50 53 | 1 41 46 | 20    |
| 50    | 0 54 40  | 3 11 9  | 4 39 12 | 4 54 39 | 3 50 19 | 1 40 55 | 10    |
| 11    | 0 55 30  | 3 11 49 | 4 39 30 | 4 54 30 | 3 49 45 | 1 40 5  | 19    |
| 10    | 0 56 20  | 3 12 28 | 4 39 48 | 4 54 22 | 3 49 11 | 1 39 14 | 50    |
| 20    | 0 57 9   | 3 13 7  | 4 40 6  | 4 54 13 | 3 48 37 | 1 38 24 | 40    |
| 30    | 0 57 59  | 3 13 46 | 4 40 24 | 4 54 4  | 3 48 3  | 1 37 33 | 30    |
| 40    | 0 58 49  | 3 14 25 | 4 40 42 | 4 53 55 | 3 47 29 | 1 36 43 | 20    |
| 50    | 0 59 38  | 3 15 3  | 4 40 59 | 4 53 46 | 3 46 54 | 1 35 52 | 10    |
| 12    | 1 0 28   | 3 15 42 | 4 41 17 | 4 53 36 | 3 46 20 | 1 35 1  | 18    |
|       | II       | IO      | 9       | 8       | 7       | 6       |       |

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| Anom. | Subtrahere |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    | Anom. |
|-------|------------|----|----|---|----|----|---|----|----|---|----|----|---|----|----|---|----|----|-------|
|       | 0          |    |    | 1 |    |    | 2 |    |    | 3 |    |    | 4 |    |    | 5 |    |    |       |
|       | P          | I  | II | P | I  | II | P | I  | II | P | I  | II | P | I  | II | P | I  | II |       |
| 12    | 1          | 0  | 28 | 3 | 15 | 42 | 4 | 41 | 17 | 4 | 53 | 36 | 3 | 46 | 20 | 1 | 35 | 1  | 18    |
| 10    | 1          | 1  | 18 | 3 | 16 | 20 | 4 | 41 | 34 | 4 | 53 | 27 | 3 | 45 | 46 | 1 | 34 | 10 | 50    |
| 20    | 1          | 2  | 7  | 3 | 16 | 59 | 4 | 41 | 52 | 4 | 53 | 17 | 3 | 45 | 11 | 1 | 33 | 19 | 40    |
| 30    | 1          | 2  | 57 | 3 | 17 | 37 | 4 | 42 | 9  | 4 | 53 | 7  | 3 | 44 | 36 | 1 | 32 | 28 | 30    |
| 40    | 1          | 3  | 46 | 3 | 18 | 15 | 4 | 42 | 26 | 4 | 52 | 57 | 3 | 44 | 1  | 1 | 31 | 37 | 20    |
| 50    | 1          | 4  | 36 | 3 | 18 | 53 | 4 | 42 | 43 | 4 | 52 | 47 | 3 | 43 | 26 | 1 | 30 | 46 | 10    |
| 13    | 1          | 5  | 25 | 3 | 19 | 31 | 4 | 42 | 59 | 4 | 52 | 37 | 3 | 42 | 50 | 1 | 29 | 55 | 17    |
| 10    | 1          | 6  | 15 | 3 | 20 | 9  | 4 | 43 | 16 | 4 | 52 | 26 | 3 | 42 | 15 | 1 | 29 | 4  | 50    |
| 20    | 1          | 7  | 4  | 3 | 20 | 46 | 4 | 43 | 32 | 4 | 52 | 16 | 3 | 41 | 39 | 1 | 28 | 13 | 40    |
| 30    | 1          | 7  | 53 | 3 | 21 | 24 | 4 | 43 | 48 | 4 | 52 | 5  | 3 | 41 | 4  | 1 | 27 | 21 | 30    |
| 40    | 1          | 8  | 43 | 3 | 22 | 2  | 4 | 44 | 4  | 4 | 51 | 55 | 3 | 40 | 28 | 1 | 26 | 30 | 20    |
| 50    | 1          | 9  | 32 | 3 | 22 | 39 | 4 | 44 | 19 | 4 | 51 | 44 | 3 | 39 | 52 | 1 | 25 | 39 | 10    |
| 14    | 1          | 10 | 21 | 3 | 23 | 17 | 4 | 44 | 35 | 4 | 51 | 33 | 3 | 39 | 16 | 1 | 24 | 47 | 16    |
| 10    | 1          | 11 | 10 | 3 | 23 | 54 | 4 | 44 | 50 | 4 | 51 | 22 | 3 | 38 | 40 | 1 | 23 | 56 | 50    |
| 20    | 1          | 12 | 0  | 3 | 24 | 31 | 4 | 45 | 6  | 4 | 51 | 11 | 3 | 38 | 4  | 1 | 23 | 4  | 40    |
| 30    | 1          | 12 | 49 | 3 | 25 | 8  | 4 | 45 | 21 | 4 | 50 | 59 | 3 | 37 | 27 | 1 | 22 | 13 | 30    |
| 40    | 1          | 13 | 38 | 3 | 25 | 45 | 4 | 45 | 36 | 4 | 50 | 47 | 3 | 36 | 51 | 1 | 21 | 21 | 20    |
| 50    | 1          | 14 | 27 | 3 | 26 | 22 | 4 | 45 | 51 | 4 | 50 | 35 | 3 | 36 | 14 | 1 | 20 | 30 | 10    |
| 15    | 1          | 15 | 16 | 3 | 26 | 59 | 4 | 46 | 5  | 4 | 50 | 23 | 3 | 35 | 38 | 1 | 19 | 38 | 15    |
| 10    | 1          | 16 | 5  | 3 | 27 | 35 | 4 | 46 | 19 | 4 | 50 | 10 | 3 | 35 | 1  | 1 | 18 | 46 | 50    |
| 20    | 1          | 16 | 54 | 3 | 28 | 12 | 4 | 46 | 34 | 4 | 49 | 58 | 3 | 34 | 24 | 1 | 17 | 55 | 40    |
| 30    | 1          | 17 | 43 | 3 | 28 | 48 | 4 | 46 | 48 | 4 | 49 | 45 | 3 | 33 | 47 | 1 | 17 | 3  | 30    |
| 40    | 1          | 18 | 32 | 3 | 29 | 25 | 4 | 47 | 2  | 4 | 49 | 33 | 3 | 33 | 10 | 1 | 16 | 11 | 20    |
| 50    | 1          | 19 | 21 | 3 | 30 | 1  | 4 | 47 | 16 | 4 | 49 | 20 | 3 | 32 | 32 | 1 | 15 | 19 | 10    |
| 16    | 1          | 20 | 10 | 3 | 30 | 38 | 4 | 47 | 30 | 4 | 49 | 7  | 3 | 31 | 55 | 1 | 14 | 27 | 14    |
| 10    | 1          | 20 | 59 | 3 | 31 | 14 | 4 | 47 | 44 | 4 | 48 | 54 | 3 | 31 | 17 | 1 | 13 | 35 | 50    |
| 20    | 1          | 21 | 48 | 3 | 31 | 50 | 4 | 47 | 57 | 4 | 48 | 40 | 3 | 30 | 40 | 1 | 12 | 43 | 40    |
| 30    | 1          | 22 | 37 | 3 | 32 | 26 | 4 | 48 | 11 | 4 | 48 | 27 | 3 | 30 | 2  | 1 | 11 | 51 | 30    |
| 40    | 1          | 23 | 25 | 3 | 33 | 2  | 4 | 48 | 24 | 4 | 48 | 13 | 3 | 29 | 24 | 1 | 10 | 59 | 20    |
| 50    | 1          | 24 | 14 | 3 | 33 | 38 | 4 | 48 | 37 | 4 | 48 | 0  | 3 | 28 | 46 | 1 | 10 | 6  | 10    |
| 17    | 1          | 25 | 3  | 3 | 34 | 13 | 4 | 48 | 50 | 4 | 47 | 46 | 3 | 28 | 8  | 1 | 9  | 14 | 13    |
| 10    | 1          | 25 | 52 | 3 | 34 | 48 | 4 | 49 | 3  | 4 | 47 | 33 | 3 | 27 | 30 | 1 | 8  | 22 | 50    |
| 20    | 1          | 26 | 40 | 3 | 35 | 24 | 4 | 49 | 16 | 4 | 47 | 19 | 3 | 26 | 52 | 1 | 7  | 29 | 40    |
| 30    | 1          | 27 | 29 | 3 | 35 | 59 | 4 | 49 | 29 | 4 | 47 | 5  | 3 | 26 | 14 | 1 | 6  | 37 | 30    |
| 40    | 1          | 28 | 18 | 3 | 36 | 34 | 4 | 49 | 41 | 4 | 46 | 51 | 3 | 25 | 35 | 1 | 5  | 44 | 20    |
| 50    | 1          | 29 | 6  | 3 | 37 | 9  | 4 | 49 | 54 | 4 | 46 | 36 | 3 | 24 | 57 | 1 | 4  | 52 | 10    |
| 18    | 1          | 29 | 55 | 3 | 37 | 44 | 4 | 50 | 6  | 4 | 46 | 21 | 3 | 24 | 18 | 1 | 3  | 59 | 12    |
|       |            | 11 |    |   | 10 |    |   | 9  |    |   | 8  |    |   | 7  |    |   |    | 6  |       |
|       |            |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |       |
|       |            |    |    |   |    |    |   |    |    |   |    |    |   |    |    |   |    |    |       |



| 5 |    |    | Anom. |
|---|----|----|-------|
| P | I  | "  |       |
| I | 35 | 1  | 18    |
| I | 34 | 10 | 50    |
| I | 33 | 19 | 40    |
| I | 32 | 28 | 30    |
| I | 31 | 37 | 20    |
| I | 30 | 46 | 10    |
| I | 29 | 55 | 17    |
| I | 29 | 4  | 50    |
| I | 28 | 13 | 40    |
| I | 27 | 21 | 30    |
| I | 26 | 30 | 20    |
| I | 25 | 39 | 10    |
| I | 24 | 47 | 16    |
| I | 23 | 56 | 50    |
| I | 23 | 4  | 40    |
| I | 22 | 13 | 30    |
| I | 21 | 21 | 20    |
| I | 20 | 30 | 10    |
| I | 19 | 38 | 15    |
| I | 18 | 46 | 50    |
| I | 17 | 55 | 40    |
| I | 17 | 3  | 30    |
| I | 16 | 11 | 20    |
| I | 15 | 19 | 10    |
| I | 14 | 27 | 14    |
| I | 13 | 35 | 50    |
| I | 12 | 43 | 40    |
| I | 11 | 51 | 30    |
| I | 10 | 59 | 20    |
| I | 10 | 6  | 10    |
| I | 9  | 14 | 13    |
| I | 8  | 22 | 50    |
| I | 7  | 29 | 40    |
| I | 6  | 37 | 30    |
| I | 5  | 44 | 20    |
| I | 4  | 52 | 10    |
| I | 3  | 59 | 12    |
| 6 |    |    |       |

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|-------|--|----------|----|----|----|----|----|---|----|----|---|----|----|---|----|----|-------|----|----|----|---|
|       |  | 0        |    |    | 1  |    |    | 2 |    |    | 3 |    |    | 4 |    |    |       |    | 5  |    |   |
|       |  | P        | i  | u  | P  | i  | u  | P | i  | u  | P | i  | u  | P | i  | u  |       |    | P  | i  | u |
| 18    |  | 1        | 29 | 55 | 3  | 37 | 44 | 4 | 50 | 6  | 4 | 46 | 21 | 3 | 24 | 18 | 1     | 3  | 59 | 12 |   |
| 10    |  | 1        | 30 | 43 | 3  | 38 | 19 | 4 | 50 | 18 | 4 | 46 | 6  | 3 | 23 | 39 | 1     | 3  | 6  | 50 |   |
| 20    |  | 1        | 31 | 31 | 3  | 38 | 54 | 4 | 50 | 30 | 4 | 45 | 51 | 3 | 23 | 6  | 1     | 2  | 14 | 40 |   |
| 30    |  | 1        | 32 | 20 | 3  | 39 | 28 | 4 | 50 | 42 | 4 | 45 | 36 | 3 | 22 | 21 | 1     | 1  | 21 | 30 |   |
| 40    |  | 1        | 33 | 8  | 3  | 40 | 3  | 4 | 50 | 53 | 4 | 45 | 21 | 3 | 21 | 42 | 1     | 0  | 29 | 20 |   |
| 50    |  | 1        | 33 | 56 | 3  | 40 | 37 | 4 | 51 | 5  | 4 | 45 | 5  | 3 | 21 | 3  | 0     | 59 | 36 | 10 |   |
| 19    |  | 1        | 34 | 44 | 3  | 41 | 12 | 4 | 51 | 16 | 4 | 44 | 50 | 3 | 20 | 24 | 0     | 58 | 43 | 11 |   |
| 10    |  | 1        | 35 | 32 | 3  | 41 | 46 | 4 | 51 | 27 | 4 | 44 | 34 | 3 | 19 | 44 | 0     | 57 | 51 | 50 |   |
| 20    |  | 1        | 36 | 20 | 3  | 42 | 20 | 4 | 51 | 38 | 4 | 44 | 18 | 3 | 19 | 5  | 0     | 56 | 58 | 40 |   |
| 30    |  | 1        | 37 | 8  | 3  | 42 | 54 | 4 | 51 | 49 | 4 | 44 | 2  | 3 | 18 | 25 | 0     | 56 | 5  | 30 |   |
| 40    |  | 1        | 37 | 56 | 3  | 43 | 28 | 4 | 52 | 0  | 4 | 43 | 46 | 3 | 17 | 45 | 0     | 55 | 13 | 20 |   |
| 50    |  | 1        | 38 | 44 | 3  | 44 | 2  | 4 | 52 | 10 | 4 | 43 | 29 | 3 | 17 | 5  | 0     | 54 | 20 | 10 |   |
| 20    |  | 1        | 39 | 32 | 3  | 44 | 36 | 4 | 52 | 21 | 4 | 43 | 13 | 3 | 16 | 25 | 0     | 53 | 27 | 10 |   |
| 10    |  | 1        | 40 | 20 | 3  | 45 | 9  | 4 | 52 | 31 | 4 | 42 | 56 | 3 | 15 | 45 | 0     | 52 | 34 | 50 |   |
| 20    |  | 1        | 41 | 7  | 3  | 45 | 43 | 4 | 52 | 42 | 4 | 42 | 40 | 3 | 15 | 5  | 0     | 51 | 42 | 40 |   |
| 30    |  | 1        | 41 | 55 | 3  | 46 | 16 | 4 | 52 | 52 | 4 | 42 | 23 | 3 | 14 | 24 | 0     | 50 | 49 | 30 |   |
| 40    |  | 1        | 42 | 43 | 3  | 46 | 50 | 4 | 53 | 2  | 4 | 42 | 6  | 3 | 13 | 44 | 0     | 49 | 56 | 20 |   |
| 50    |  | 1        | 43 | 30 | 3  | 47 | 23 | 4 | 53 | 12 | 4 | 41 | 49 | 3 | 13 | 3  | 0     | 49 | 3  | 10 |   |
| 21    |  | 1        | 44 | 18 | 3  | 47 | 56 | 4 | 53 | 21 | 4 | 41 | 31 | 3 | 12 | 22 | 0     | 48 | 10 | 9  |   |
| 10    |  | 1        | 45 | 5  | 3  | 48 | 29 | 4 | 53 | 30 | 4 | 41 | 14 | 3 | 11 | 41 | 0     | 47 | 17 | 50 |   |
| 20    |  | 1        | 45 | 53 | 3  | 49 | 2  | 4 | 53 | 40 | 4 | 40 | 56 | 3 | 11 | 0  | 0     | 46 | 24 | 40 |   |
| 30    |  | 1        | 46 | 41 | 3  | 49 | 35 | 4 | 53 | 49 | 4 | 40 | 38 | 3 | 10 | 19 | 0     | 45 | 31 | 30 |   |
| 40    |  | 1        | 47 | 28 | 3  | 50 | 7  | 4 | 53 | 58 | 4 | 40 | 20 | 3 | 9  | 37 | 0     | 44 | 38 | 20 |   |
| 50    |  | 1        | 48 | 16 | 3  | 50 | 40 | 4 | 54 | 7  | 4 | 40 | 2  | 3 | 8  | 56 | 0     | 43 | 45 | 10 |   |
| 22    |  | 1        | 49 | 3  | 3  | 51 | 12 | 4 | 54 | 16 | 4 | 39 | 43 | 3 | 8  | 15 | 0     | 42 | 52 | 8  |   |
| 10    |  | 1        | 49 | 51 | 3  | 51 | 44 | 4 | 54 | 24 | 4 | 39 | 25 | 3 | 7  | 33 | 0     | 41 | 59 | 50 |   |
| 20    |  | 1        | 50 | 38 | 3  | 52 | 16 | 4 | 54 | 33 | 4 | 39 | 7  | 3 | 6  | 52 | 0     | 41 | 6  | 40 |   |
| 30    |  | 1        | 51 | 25 | 3  | 52 | 48 | 4 | 54 | 41 | 4 | 38 | 48 | 3 | 6  | 10 | 0     | 40 | 13 | 30 |   |
| 40    |  | 1        | 52 | 13 | 3  | 53 | 20 | 4 | 54 | 49 | 4 | 38 | 29 | 3 | 5  | 29 | 0     | 39 | 20 | 20 |   |
| 50    |  | 1        | 53 | 0  | 3  | 53 | 52 | 4 | 54 | 57 | 4 | 38 | 10 | 3 | 4  | 47 | 0     | 38 | 26 | 10 |   |
| 23    |  | 1        | 53 | 47 | 3  | 54 | 24 | 4 | 55 | 5  | 4 | 37 | 51 | 3 | 4  | 5  | 0     | 37 | 33 | 7  |   |
| 10    |  | 1        | 54 | 34 | 3  | 54 | 55 | 4 | 55 | 13 | 4 | 37 | 32 | 3 | 3  | 23 | 0     | 36 | 40 | 50 |   |
| 20    |  | 1        | 55 | 21 | 3  | 55 | 27 | 4 | 55 | 20 | 4 | 37 | 13 | 3 | 2  | 41 | 0     | 35 | 46 | 40 |   |
| 30    |  | 1        | 56 | 8  | 3  | 55 | 58 | 4 | 55 | 28 | 4 | 36 | 53 | 3 | 1  | 59 | 0     | 34 | 53 | 30 |   |
| 40    |  | 1        | 56 | 55 | 3  | 56 | 30 | 4 | 55 | 35 | 4 | 36 | 34 | 3 | 1  | 17 | 0     | 34 | 0  | 20 |   |
| 50    |  | 1        | 57 | 42 | 3  | 57 | 1  | 4 | 55 | 42 | 4 | 36 | 14 | 3 | 0  | 34 | 0     | 33 | 7  | 10 |   |
| 24    |  | 1        | 58 | 29 | 3  | 57 | 32 | 4 | 55 | 49 | 4 | 35 | 54 | 2 | 59 | 52 | 0     | 32 | 13 | 6  |   |
|       |  | 11       |    |    | 10 |    |    | 9 |    |    | 8 |    |    | 7 |    |    | 6     |    |    |    |   |
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|-------|----------|----|----|----|----|----|---|----|----|---|----|----|---|----|----|---|----|----|-------|
|       | 0        |    |    | 1  |    |    | 2 |    |    | 3 |    |    | 4 |    |    | 5 |    |    |       |
|       | P        | i  | u  | P  | i  | u  | P | i  | u  | P | i  | u  | P | i  | u  | P | i  | u  |       |
| 24    | 1        | 58 | 29 | 3  | 57 | 32 | 4 | 55 | 49 | 4 | 35 | 54 | 2 | 59 | 52 | 0 | 32 | 13 | 6     |
| 10    | 1        | 59 | 16 | 3  | 58 | 3  | 4 | 55 | 56 | 4 | 35 | 34 | 2 | 59 | 9  | 0 | 31 | 19 | 50    |
| 20    | 2        | 0  | 2  | 3  | 58 | 34 | 4 | 56 | 3  | 4 | 35 | 14 | 2 | 58 | 27 | 0 | 30 | 26 | 40    |
| 30    | 2        | 0  | 49 | 3  | 59 | 4  | 4 | 56 | 9  | 4 | 34 | 53 | 2 | 57 | 44 | 0 | 29 | 32 | 30    |
| 40    | 2        | 1  | 35 | 3  | 59 | 35 | 4 | 56 | 16 | 4 | 34 | 33 | 2 | 57 | 1  | 0 | 28 | 39 | 20    |
| 50    | 2        | 2  | 22 | 4  | 0  | 6  | 4 | 56 | 22 | 4 | 34 | 12 | 2 | 56 | 18 | 0 | 27 | 45 | 10    |
| 25    | 2        | 3  | 8  | 4  | 0  | 36 | 4 | 56 | 28 | 4 | 33 | 51 | 2 | 55 | 35 | 0 | 26 | 52 | 5     |
| 10    | 2        | 3  | 54 | 4  | 1  | 6  | 4 | 56 | 34 | 4 | 33 | 30 | 2 | 54 | 52 | 0 | 25 | 58 | 50    |
| 20    | 2        | 4  | 40 | 4  | 1  | 36 | 4 | 56 | 40 | 4 | 33 | 9  | 2 | 54 | 9  | 0 | 25 | 4  | 40    |
| 30    | 2        | 5  | 26 | 4  | 2  | 6  | 4 | 56 | 45 | 4 | 32 | 47 | 2 | 53 | 25 | 0 | 24 | 11 | 30    |
| 40    | 2        | 6  | 12 | 4  | 2  | 35 | 4 | 56 | 51 | 4 | 32 | 26 | 2 | 52 | 42 | 0 | 23 | 17 | 20    |
| 50    | 2        | 6  | 58 | 4  | 3  | 5  | 4 | 56 | 56 | 4 | 32 | 4  | 2 | 51 | 58 | 0 | 22 | 23 | 10    |
| 26    | 2        | 7  | 44 | 4  | 3  | 35 | 4 | 57 | 1  | 4 | 31 | 42 | 2 | 51 | 14 | 0 | 21 | 30 | 4     |
| 10    | 2        | 8  | 30 | 4  | 4  | 5  | 4 | 57 | 6  | 4 | 31 | 20 | 2 | 50 | 30 | 0 | 20 | 36 | 50    |
| 20    | 2        | 9  | 15 | 4  | 4  | 34 | 4 | 57 | 11 | 4 | 30 | 58 | 2 | 49 | 46 | 0 | 19 | 42 | 40    |
| 30    | 2        | 10 | 1  | 4  | 5  | 3  | 4 | 57 | 15 | 4 | 30 | 36 | 2 | 49 | 2  | 0 | 18 | 49 | 30    |
| 40    | 2        | 10 | 47 | 4  | 5  | 32 | 4 | 57 | 20 | 4 | 30 | 14 | 2 | 48 | 18 | 0 | 17 | 55 | 20    |
| 50    | 2        | 11 | 32 | 4  | 6  | 1  | 4 | 57 | 24 | 4 | 29 | 51 | 2 | 47 | 33 | 0 | 17 | 1  | 10    |
| 27    | 2        | 12 | 18 | 4  | 6  | 30 | 4 | 57 | 29 | 4 | 29 | 29 | 2 | 46 | 49 | 0 | 16 | 8  | 3     |
| 10    | 2        | 13 | 3  | 4  | 6  | 59 | 4 | 57 | 33 | 4 | 29 | 6  | 2 | 46 | 4  | 0 | 15 | 14 | 50    |
| 20    | 2        | 13 | 49 | 4  | 7  | 27 | 4 | 57 | 37 | 4 | 28 | 44 | 2 | 45 | 20 | 0 | 14 | 20 | 40    |
| 30    | 2        | 14 | 34 | 4  | 7  | 6  | 4 | 57 | 41 | 4 | 28 | 21 | 2 | 44 | 35 | 0 | 13 | 27 | 30    |
| 40    | 2        | 15 | 19 | 4  | 8  | 24 | 4 | 57 | 44 | 4 | 27 | 58 | 2 | 43 | 51 | 0 | 12 | 33 | 20    |
| 50    | 2        | 16 | 5  | 4  | 8  | 53 | 4 | 57 | 48 | 4 | 27 | 35 | 2 | 43 | 6  | 0 | 11 | 39 | 10    |
| 28    | 2        | 16 | 50 | 4  | 9  | 21 | 4 | 57 | 51 | 4 | 27 | 11 | 2 | 42 | 21 | 0 | 10 | 46 | 2     |
| 10    | 2        | 17 | 35 | 4  | 9  | 49 | 4 | 57 | 54 | 4 | 26 | 48 | 2 | 41 | 36 | 0 | 9  | 52 | 50    |
| 20    | 2        | 18 | 20 | 4  | 10 | 17 | 4 | 57 | 57 | 4 | 26 | 24 | 2 | 40 | 51 | 0 | 8  | 58 | 40    |
| 30    | 2        | 19 | 5  | 4  | 10 | 45 | 4 | 58 | 0  | 4 | 26 | 0  | 2 | 40 | 6  | 0 | 8  | 5  | 30    |
| 40    | 2        | 19 | 50 | 4  | 11 | 13 | 4 | 58 | 3  | 4 | 25 | 36 | 2 | 39 | 21 | 0 | 7  | 11 | 20    |
| 50    | 2        | 20 | 35 | 4  | 11 | 40 | 4 | 58 | 5  | 4 | 25 | 12 | 2 | 38 | 36 | 0 | 6  | 17 | 10    |
| 29    | 2        | 21 | 20 | 4  | 12 | 8  | 4 | 58 | 8  | 4 | 24 | 48 | 2 | 37 | 51 | 0 | 5  | 23 | I     |
| 10    | 2        | 22 | 4  | 4  | 12 | 35 | 4 | 58 | 10 | 4 | 24 | 23 | 2 | 37 | 5  | 0 | 4  | 29 | 50    |
| 20    | 2        | 22 | 49 | 4  | 13 | 3  | 4 | 58 | 13 | 4 | 23 | 59 | 2 | 36 | 20 | 0 | 3  | 36 | 40    |
| 30    | 2        | 23 | 34 | 4  | 13 | 30 | 4 | 58 | 15 | 4 | 23 | 34 | 2 | 35 | 34 | 0 | 2  | 42 | 30    |
| 40    | 2        | 24 | 18 | 4  | 13 | 57 | 4 | 58 | 17 | 4 | 23 | 10 | 2 | 34 | 49 | 0 | 1  | 48 | 20    |
| 50    | 2        | 25 | 3  | 4  | 14 | 24 | 4 | 58 | 19 | 4 | 22 | 45 | 2 | 34 | 3  | 0 | 0  | 54 | 10    |
| 30    | 2        | 25 | 47 | 4  | 14 | 51 | 4 | 58 | 20 | 4 | 22 | 20 | 2 | 33 | 18 | 0 | 0  | 0  | O     |
|       | II       |    |    | IO |    |    | 9 |    |    | 8 |    |    | 7 |    |    | 6 |    |    |       |
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| 5 |    |    | Anom. |
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| P | i  | u  |       |
| 0 | 32 | 13 | 6     |
| 0 | 31 | 19 | 50    |
| 0 | 30 | 26 | 40    |
| 0 | 29 | 32 | 30    |
| 0 | 28 | 39 | 20    |
| 0 | 27 | 45 | 10    |
| 0 | 26 | 52 | 5     |
| 0 | 25 | 58 | 50    |
| 0 | 25 | 4  | 40    |
| 0 | 24 | 11 | 30    |
| 0 | 23 | 17 | 20    |
| 0 | 22 | 23 | 10    |
| 0 | 21 | 30 | 4     |
| 0 | 20 | 36 | 50    |
| 0 | 19 | 42 | 40    |
| 0 | 18 | 49 | 30    |
| 0 | 17 | 55 | 20    |
| 0 | 17 | 1  | 10    |
| 0 | 16 | 8  | 3     |
| 0 | 15 | 14 | 50    |
| 0 | 14 | 20 | 40    |
| 0 | 13 | 27 | 30    |
| 0 | 12 | 33 | 20    |
| 0 | 11 | 39 | 10    |
| 0 | 10 | 46 | 2     |
| 0 | 9  | 52 | 50    |
| 0 | 8  | 58 | 40    |
| 0 | 8  | 5  | 30    |
| 0 | 7  | 11 | 20    |
| 0 | 6  | 17 | 10    |
| 0 | 5  | 23 | 1     |
| 0 | 4  | 29 | 50    |
| 0 | 3  | 36 | 40    |
| 0 | 2  | 42 | 30    |
| 0 | 1  | 48 | 20    |
| 0 | 0  | 54 | 10    |
| 0 | 0  | 0  | 0     |
| 6 |    |    |       |

| Subtrahe     |         |    |    |          |         |        |         |         |    |          |   |   |         | Diffan. vera |   |          |   |   |   |
|--------------|---------|----|----|----------|---------|--------|---------|---------|----|----------|---|---|---------|--------------|---|----------|---|---|---|
| Diffan. vera | 0 vel 6 |    |    |          |         |        | 1 vel 7 |         |    |          |   |   | 2 vel 8 |              |   |          |   |   |   |
|              | Acq. 88 |    |    | Lat. Ma. |         |        | Acq. 88 |         |    | Lat. Ma. |   |   | Acq. 88 |              |   | Lat. Ma. |   |   |   |
|              | P       | i  | u  | P        | i       | u      | P       | i       | u  | P        | i | u | P       |              | i | u        | P | i | u |
| 0            | 0       | 0  | 0  | 4 58 30  | 1 33 28 | 5 3 22 | 1 30 32 | 5 12 51 | 30 |          |   |   |         |              |   |          |   |   |   |
| 10           | 0       | 0  | 38 | 4 58 30  | 1 33 46 | 5 3 25 | 1 30 13 | 5 12 54 | 50 |          |   |   |         |              |   |          |   |   |   |
| 20           | 0       | 1  | 17 | 4 58 30  | 1 34 4  | 5 3 28 | 1 29 54 | 5 12 57 | 40 |          |   |   |         |              |   |          |   |   |   |
| 30           | 0       | 1  | 55 | 4 58 30  | 1 34 21 | 5 3 31 | 1 29 34 | 5 13 0  | 30 |          |   |   |         |              |   |          |   |   |   |
| 40           | 0       | 2  | 33 | 4 58 30  | 1 34 38 | 5 3 34 | 1 29 14 | 4 13 2  | 20 |          |   |   |         |              |   |          |   |   |   |
| 50           | 0       | 3  | 12 | 4 58 30  | 1 34 55 | 5 3 37 | 1 28 54 | 5 13 5  | 10 |          |   |   |         |              |   |          |   |   |   |
| 1            | 0       | 3  | 50 | 4 58 30  | 1 35 12 | 5 3 40 | 1 28 34 | 5 13 8  | 29 |          |   |   |         |              |   |          |   |   |   |
| 10           | 0       | 4  | 28 | 4 58 30  | 1 35 28 | 5 3 43 | 1 28 14 | 5 13 11 | 50 |          |   |   |         |              |   |          |   |   |   |
| 20           | 0       | 5  | 6  | 4 58 30  | 1 35 44 | 5 3 46 | 1 27 53 | 5 13 13 | 40 |          |   |   |         |              |   |          |   |   |   |
| 30           | 0       | 5  | 45 | 4 58 31  | 1 36 0  | 5 3 49 | 1 27 33 | 5 13 16 | 30 |          |   |   |         |              |   |          |   |   |   |
| 40           | 0       | 6  | 23 | 4 58 31  | 1 36 16 | 5 3 52 | 1 27 12 | 5 13 19 | 20 |          |   |   |         |              |   |          |   |   |   |
| 50           | 0       | 7  | 1  | 4 58 31  | 1 36 32 | 5 3 55 | 1 26 51 | 5 13 21 | 10 |          |   |   |         |              |   |          |   |   |   |
| 2            | 0       | 7  | 39 | 4 58 31  | 1 36 47 | 5 3 58 | 1 26 30 | 5 13 24 | 28 |          |   |   |         |              |   |          |   |   |   |
| 10           | 0       | 8  | 17 | 4 58 31  | 1 37 2  | 5 4 1  | 1 26 9  | 5 13 27 | 50 |          |   |   |         |              |   |          |   |   |   |
| 20           | 0       | 8  | 55 | 4 58 32  | 1 37 17 | 5 4 4  | 1 25 48 | 5 13 29 | 40 |          |   |   |         |              |   |          |   |   |   |
| 30           | 0       | 9  | 33 | 4 58 32  | 1 37 31 | 5 4 7  | 1 25 26 | 5 13 32 | 30 |          |   |   |         |              |   |          |   |   |   |
| 40           | 0       | 10 | 11 | 4 58 32  | 1 37 45 | 5 4 10 | 1 25 5  | 5 13 35 | 20 |          |   |   |         |              |   |          |   |   |   |
| 50           | 0       | 10 | 49 | 4 58 33  | 1 37 59 | 5 4 13 | 1 24 43 | 5 13 37 | 10 |          |   |   |         |              |   |          |   |   |   |
| 3            | 0       | 11 | 27 | 4 58 33  | 1 38 12 | 5 4 16 | 1 24 21 | 5 13 40 | 27 |          |   |   |         |              |   |          |   |   |   |
| 10           | 0       | 12 | 5  | 4 58 34  | 1 38 26 | 5 4 19 | 1 23 59 | 5 13 43 | 50 |          |   |   |         |              |   |          |   |   |   |
| 20           | 0       | 12 | 43 | 4 58 34  | 1 38 39 | 5 4 22 | 1 23 37 | 5 13 45 | 40 |          |   |   |         |              |   |          |   |   |   |
| 30           | 0       | 13 | 21 | 4 58 35  | 1 38 52 | 5 4 25 | 1 23 14 | 5 13 48 | 30 |          |   |   |         |              |   |          |   |   |   |
| 40           | 0       | 13 | 58 | 4 58 35  | 1 39 5  | 5 4 28 | 1 22 52 | 5 13 51 | 20 |          |   |   |         |              |   |          |   |   |   |
| 50           | 0       | 14 | 36 | 4 58 36  | 1 39 18 | 5 4 31 | 1 22 29 | 5 13 53 | 10 |          |   |   |         |              |   |          |   |   |   |
| 4            | 0       | 15 | 14 | 4 58 36  | 1 39 31 | 5 4 34 | 1 22 6  | 5 13 56 | 26 |          |   |   |         |              |   |          |   |   |   |
| 10           | 0       | 15 | 52 | 4 58 37  | 1 39 43 | 5 4 37 | 1 21 43 | 5 13 58 | 50 |          |   |   |         |              |   |          |   |   |   |
| 20           | 0       | 16 | 29 | 4 58 37  | 1 39 55 | 5 4 40 | 1 21 20 | 5 14 1  | 40 |          |   |   |         |              |   |          |   |   |   |
| 30           | 0       | 17 | 7  | 4 58 38  | 1 40 7  | 5 4 44 | 1 20 56 | 5 14 3  | 30 |          |   |   |         |              |   |          |   |   |   |
| 40           | 0       | 17 | 45 | 4 58 38  | 1 40 19 | 5 4 47 | 1 20 33 | 5 14 6  | 20 |          |   |   |         |              |   |          |   |   |   |
| 50           | 0       | 18 | 22 | 4 58 39  | 1 40 30 | 5 4 50 | 1 20 9  | 5 14 8  | 10 |          |   |   |         |              |   |          |   |   |   |
| 5            | 0       | 19 | 0  | 4 58 39  | 1 40 42 | 5 4 53 | 1 19 45 | 5 14 11 | 25 |          |   |   |         |              |   |          |   |   |   |
| 10           | 0       | 19 | 38 | 4 58 40  | 1 40 53 | 5 4 56 | 1 19 21 | 5 14 13 | 50 |          |   |   |         |              |   |          |   |   |   |
| 20           | 0       | 20 | 15 | 4 58 41  | 1 41 4  | 5 5 0  | 1 18 57 | 5 14 16 | 40 |          |   |   |         |              |   |          |   |   |   |
| 30           | 0       | 20 | 53 | 4 58 41  | 1 41 15 | 5 5 3  | 1 18 32 | 5 14 18 | 30 |          |   |   |         |              |   |          |   |   |   |
| 40           | 0       | 21 | 31 | 4 58 42  | 1 41 25 | 5 5 6  | 1 18 8  | 5 14 21 | 20 |          |   |   |         |              |   |          |   |   |   |
| 50           | 0       | 22 | 8  | 4 58 43  | 1 41 36 | 5 5 9  | 1 17 43 | 5 14 23 | 10 |          |   |   |         |              |   |          |   |   |   |
| 6            | 0       | 22 | 46 | 4 58 43  | 1 41 46 | 5 5 12 | 1 17 18 | 5 14 26 | 24 |          |   |   |         |              |   |          |   |   |   |
| 11 vel 5     |         |    |    | 10 vel 4 |         |        |         | 9 vel 3 |    |          |   |   |         |              |   |          |   |   |   |

Adde

Adde

G 2



| Diffan. vera | Subtrahe |    |    |          |    |    |          |    |    |          |   |    |         |    |    |          |    |    | Diffan. vera |  |  |  |  |  |
|--------------|----------|----|----|----------|----|----|----------|----|----|----------|---|----|---------|----|----|----------|----|----|--------------|--|--|--|--|--|
|              | 0 vel 6  |    |    |          |    |    | 1 vel 7  |    |    |          |   |    | 2 vel 8 |    |    |          |    |    |              |  |  |  |  |  |
|              | Acq. Ω   |    |    | Lat. Ma. |    |    | Acq. Ω   |    |    | Lat. Ma. |   |    | Acq. Ω  |    |    | Lat. Ma. |    |    |              |  |  |  |  |  |
|              | P        | i  | u  | P        | i  | u  | P        | i  | u  | P        | i | u  | P       | i  | u  | P        | i  | u  |              |  |  |  |  |  |
| 6            | 0        | 22 | 46 | 4        | 58 | 43 | 1        | 41 | 46 | 5        | 5 | 12 | 1       | 17 | 18 | 5        | 14 | 26 | 24           |  |  |  |  |  |
| 10           | 0        | 23 | 23 | 4        | 58 | 44 | 1        | 41 | 56 | 5        | 5 | 15 | 1       | 16 | 53 | 5        | 14 | 28 | 50           |  |  |  |  |  |
| 20           | 0        | 24 | 1  | 4        | 58 | 44 | 1        | 42 | 6  | 5        | 5 | 18 | 1       | 16 | 28 | 5        | 14 | 30 | 40           |  |  |  |  |  |
| 30           | 0        | 24 | 38 | 4        | 58 | 45 | 1        | 42 | 16 | 5        | 5 | 22 | 1       | 16 | 3  | 5        | 14 | 33 | 30           |  |  |  |  |  |
| 40           | 0        | 25 | 15 | 4        | 58 | 46 | 1        | 42 | 26 | 5        | 5 | 25 | 1       | 15 | 37 | 5        | 14 | 35 | 20           |  |  |  |  |  |
| 50           | 0        | 25 | 52 | 4        | 58 | 46 | 1        | 42 | 35 | 5        | 5 | 28 | 1       | 15 | 12 | 5        | 14 | 37 | 10           |  |  |  |  |  |
| 7            | 0        | 26 | 29 | 4        | 58 | 47 | 1        | 42 | 44 | 5        | 5 | 31 | 1       | 14 | 46 | 5        | 14 | 40 | 23           |  |  |  |  |  |
| 10           | 0        | 27 | 6  | 4        | 58 | 48 | 1        | 42 | 54 | 5        | 5 | 34 | 1       | 14 | 20 | 5        | 14 | 42 | 50           |  |  |  |  |  |
| 20           | 0        | 27 | 43 | 4        | 58 | 48 | 1        | 43 | 3  | 5        | 5 | 37 | 1       | 13 | 54 | 5        | 14 | 45 | 40           |  |  |  |  |  |
| 30           | 0        | 28 | 20 | 4        | 58 | 49 | 1        | 43 | 12 | 5        | 5 | 41 | 1       | 13 | 28 | 5        | 14 | 47 | 30           |  |  |  |  |  |
| 40           | 0        | 28 | 56 | 4        | 58 | 50 | 1        | 43 | 21 | 5        | 5 | 44 | 1       | 13 | 2  | 5        | 14 | 49 | 20           |  |  |  |  |  |
| 50           | 0        | 29 | 33 | 4        | 58 | 51 | 1        | 43 | 30 | 5        | 5 | 47 | 1       | 12 | 35 | 5        | 14 | 52 | 10           |  |  |  |  |  |
| 8            | 0        | 30 | 9  | 4        | 58 | 52 | 1        | 43 | 38 | 5        | 5 | 50 | 1       | 12 | 9  | 5        | 14 | 54 | 22           |  |  |  |  |  |
| 10           | 0        | 30 | 46 | 4        | 58 | 53 | 1        | 43 | 47 | 5        | 5 | 53 | 1       | 11 | 42 | 5        | 14 | 56 | 50           |  |  |  |  |  |
| 20           | 0        | 31 | 22 | 4        | 58 | 54 | 1        | 43 | 56 | 5        | 5 | 57 | 1       | 11 | 15 | 5        | 14 | 59 | 40           |  |  |  |  |  |
| 30           | 0        | 31 | 59 | 4        | 58 | 55 | 1        | 44 | 4  | 5        | 6 | 0  | 1       | 10 | 48 | 5        | 15 | 1  | 30           |  |  |  |  |  |
| 40           | 0        | 32 | 35 | 4        | 58 | 56 | 1        | 44 | 12 | 5        | 6 | 3  | 1       | 10 | 21 | 5        | 15 | 3  | 20           |  |  |  |  |  |
| 50           | 0        | 33 | 11 | 4        | 58 | 57 | 1        | 44 | 20 | 5        | 6 | 7  | 1       | 9  | 54 | 5        | 15 | 5  | 10           |  |  |  |  |  |
| 9            | 0        | 33 | 47 | 4        | 58 | 58 | 1        | 44 | 28 | 5        | 6 | 10 | 1       | 9  | 27 | 5        | 15 | 7  | 21           |  |  |  |  |  |
| 10           | 0        | 34 | 23 | 4        | 58 | 59 | 1        | 44 | 35 | 5        | 6 | 13 | 1       | 8  | 59 | 5        | 15 | 9  | 50           |  |  |  |  |  |
| 20           | 0        | 34 | 59 | 4        | 59 | 0  | 1        | 44 | 42 | 5        | 6 | 16 | 1       | 8  | 32 | 5        | 15 | 12 | 40           |  |  |  |  |  |
| 30           | 0        | 35 | 35 | 4        | 59 | 1  | 1        | 44 | 49 | 5        | 6 | 20 | 1       | 8  | 4  | 5        | 15 | 14 | 30           |  |  |  |  |  |
| 40           | 0        | 36 | 11 | 4        | 59 | 3  | 1        | 44 | 56 | 5        | 6 | 23 | 1       | 7  | 37 | 5        | 15 | 16 | 20           |  |  |  |  |  |
| 50           | 0        | 36 | 47 | 4        | 59 | 4  | 1        | 45 | 2  | 5        | 6 | 26 | 1       | 7  | 9  | 5        | 15 | 18 | 10           |  |  |  |  |  |
| 10           | 0        | 37 | 23 | 4        | 59 | 5  | 1        | 45 | 8  | 5        | 6 | 29 | 1       | 6  | 41 | 5        | 15 | 20 | 20           |  |  |  |  |  |
| 10           | 0        | 37 | 58 | 4        | 59 | 6  | 1        | 45 | 13 | 5        | 6 | 32 | 1       | 6  | 13 | 5        | 15 | 22 | 50           |  |  |  |  |  |
| 20           | 0        | 38 | 34 | 4        | 59 | 8  | 1        | 45 | 18 | 5        | 6 | 36 | 1       | 5  | 45 | 5        | 15 | 24 | 40           |  |  |  |  |  |
| 30           | 0        | 39 | 9  | 4        | 59 | 9  | 1        | 45 | 23 | 5        | 6 | 39 | 1       | 5  | 16 | 5        | 15 | 26 | 30           |  |  |  |  |  |
| 40           | 0        | 39 | 45 | 4        | 59 | 11 | 1        | 45 | 27 | 5        | 6 | 42 | 1       | 4  | 47 | 5        | 15 | 28 | 20           |  |  |  |  |  |
| 50           | 0        | 40 | 20 | 4        | 59 | 12 | 1        | 45 | 31 | 5        | 6 | 46 | 1       | 4  | 18 | 5        | 15 | 30 | 10           |  |  |  |  |  |
| 11           | 0        | 40 | 56 | 4        | 59 | 13 | 1        | 45 | 35 | 5        | 6 | 49 | 1       | 3  | 49 | 5        | 15 | 32 | 19           |  |  |  |  |  |
| 10           | 0        | 41 | 31 | 4        | 59 | 15 | 1        | 45 | 38 | 5        | 6 | 52 | 1       | 3  | 20 | 5        | 15 | 34 | 50           |  |  |  |  |  |
| 20           | 0        | 42 | 6  | 4        | 59 | 16 | 1        | 45 | 41 | 5        | 6 | 56 | 1       | 2  | 50 | 5        | 15 | 36 | 40           |  |  |  |  |  |
| 30           | 0        | 42 | 41 | 4        | 59 | 17 | 1        | 45 | 44 | 5        | 6 | 59 | 1       | 2  | 21 | 5        | 15 | 38 | 30           |  |  |  |  |  |
| 40           | 0        | 43 | 16 | 4        | 59 | 19 | 1        | 45 | 46 | 5        | 7 | 2  | 1       | 1  | 51 | 5        | 15 | 40 | 20           |  |  |  |  |  |
| 50           | 0        | 43 | 51 | 4        | 59 | 20 | 1        | 45 | 48 | 5        | 7 | 6  | 1       | 1  | 21 | 5        | 15 | 42 | 10           |  |  |  |  |  |
| 12           | 0        | 44 | 26 | 4        | 59 | 21 | 1        | 45 | 50 | 5        | 7 | 9  | 1       | 0  | 51 | 5        | 15 | 44 | 18           |  |  |  |  |  |
|              | 11 vel 5 |    |    |          |    |    | 10 vel 4 |    |    |          |   |    | 9 vel 3 |    |    |          |    |    | Adde         |  |  |  |  |  |



Tabula Aequationis nodorum Luna.

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| el 8     | Distan. vera |
|----------|--------------|
| Lat. Ma. |              |
| P i "    |              |
| 5 14 26  | 24           |
| 5 14 28  | 50           |
| 5 14 30  | 40           |
| 5 14 33  | 30           |
| 5 14 35  | 20           |
| 5 14 37  | 10           |
| 5 14 40  | 23           |
| 5 14 42  | 30           |
| 5 14 45  | 40           |
| 5 14 47  | 30           |
| 5 14 49  | 20           |
| 5 14 52  | 10           |
| 5 14 54  | 22           |
| 5 14 56  | 50           |
| 5 14 59  | 40           |
| 5 15 1   | 30           |
| 5 15 3   | 20           |
| 5 15 5   | 10           |
| 5 15 7   | 21           |
| 5 15 9   | 50           |
| 5 15 12  | 40           |
| 5 15 14  | 30           |
| 5 15 16  | 20           |
| 5 15 18  | 10           |
| 5 15 20  | 20           |
| 5 15 22  | 50           |
| 5 15 24  | 40           |
| 5 15 26  | 30           |
| 5 15 28  | 20           |
| 5 15 30  | 10           |
| 5 15 32  | 19           |
| 5 15 34  | 50           |
| 5 15 36  | 40           |
| 5 15 38  | 30           |
| 5 15 40  | 20           |
| 5 15 42  | 10           |
| 5 15 44  | 18           |
| el 3     |              |

| Subrahe |          |          |          |         |         |          |       |         |         |          |       |
|---------|----------|----------|----------|---------|---------|----------|-------|---------|---------|----------|-------|
| 0 vel 6 |          |          |          | I vel 7 |         |          |       | 2 vel 8 |         |          |       |
| Aeq. 0  |          | Lat. Ma. |          | Aeq. 0  |         | Lat. Ma. |       | Aeq. 0  |         | Lat. Ma. |       |
| P i "   | P i "    | P i "    | P i "    | P i "   | P i "   | P i "    | P i " | P i "   | P i "   | P i "    | P i " |
| 12      | 0 44 26  | 4 59 21  | I 45 50  | 5 7 9   | I 0 51  | 5 15 44  | 18    | 0 59 51 | 5 15 48 | 40       |       |
| 10      | 0 45 0   | 4 59 23  | I 45 52  | 5 7 12  | I 0 21  | 5 15 46  | 50    | 0 58 51 | 5 15 51 | 20       |       |
| 20      | 0 45 35  | 4 59 24  | I 45 53  | 5 7 16  | 0 59 51 | 5 15 48  | 40    | 0 58 20 | 5 15 53 | 10       |       |
| 30      | 0 46 9   | 4 59 26  | I 45 54  | 5 7 19  | 0 59 21 | 5 15 49  | 30    | 0 57 50 | 5 15 55 | 17       |       |
| 40      | 0 46 44  | 4 59 27  | I 45 55  | 5 7 22  | 0 58 51 | 5 15 51  | 20    | 0 57 19 | 5 15 57 | 50       |       |
| 50      | 0 47 18  | 4 59 29  | I 45 56  | 5 7 26  | 0 56 49 | 5 15 59  | 40    | 0 56 18 | 5 16 0  | 30       |       |
| 13      | 0 47 52  | 4 59 30  | I 45 56  | 5 7 29  | 0 55 48 | 5 16 2   | 20    | 0 55 17 | 5 16 4  | 10       |       |
| 10      | 0 48 26  | 4 59 32  | I 45 57  | 5 7 32  | 0 54 47 | 5 16 6   | 16    | 0 54 16 | 5 16 8  | 50       |       |
| 20      | 0 49 0   | 4 59 33  | I 45 58  | 5 7 36  | 0 53 46 | 5 16 9   | 40    | 0 53 15 | 5 16 11 | 30       |       |
| 30      | 0 49 34  | 4 59 35  | I 45 58  | 5 7 39  | 0 52 44 | 5 16 13  | 20    | 0 52 13 | 5 16 14 | 10       |       |
| 40      | 0 50 7   | 4 59 36  | I 45 59  | 5 7 42  | 0 51 42 | 5 16 16  | 15    | 0 51 10 | 5 16 18 | 50       |       |
| 50      | 0 50 41  | 4 59 38  | I 45 59  | 5 7 46  | 0 50 39 | 5 16 19  | 40    | 0 50 7  | 5 16 21 | 30       |       |
| 14      | 0 51 14  | 4 59 39  | I 45 59  | 5 7 49  | 0 49 36 | 5 16 22  | 20    | 0 49 4  | 5 16 24 | 10       |       |
| 10      | 0 51 48  | 4 59 41  | I 46 0   | 5 7 52  | 0 48 32 | 5 16 25  | 14    | 0 48 0  | 5 16 27 | 50       |       |
| 20      | 0 52 21  | 4 59 42  | I 46 0   | 5 7 56  | 0 47 28 | 5 16 28  | 40    | 0 46 56 | 5 16 30 | 30       |       |
| 30      | 0 52 54  | 4 59 44  | I 46 0   | 5 7 59  | 0 46 23 | 5 16 31  | 20    | 0 45 51 | 5 16 33 | 10       |       |
| 40      | 0 53 27  | 4 59 46  | I 46 0   | 5 8 2   | 0 45 18 | 5 16 34  | 13    | 0 44 45 | 5 16 35 | 50       |       |
| 50      | 0 54 0   | 4 59 47  | I 46 0   | 5 8 6   | 0 44 12 | 5 16 37  | 40    | 0 43 39 | 5 16 38 | 30       |       |
| 15      | 0 54 33  | 4 59 49  | I 46 0   | 5 8 9   | 0 43 6  | 5 16 39  | 20    | 0 42 33 | 5 16 41 | 10       |       |
| 10      | 0 55 6   | 4 59 51  | I 45 59  | 5 8 12  | 0 42 0  | 5 16 42  | 12    | 0 41 13 | 5 16 43 | 50       |       |
| 20      | 0 55 38  | 4 59 52  | I 45 58  | 5 8 16  |         |          |       |         |         |          |       |
| 30      | 0 56 11  | 4 59 54  | I 45 57  | 5 8 19  |         |          |       |         |         |          |       |
| 40      | 0 56 43  | 4 59 56  | I 45 56  | 5 8 22  |         |          |       |         |         |          |       |
| 50      | 0 57 15  | 4 59 57  | I 45 55  | 5 8 26  |         |          |       |         |         |          |       |
| 16      | 0 57 47  | 4 59 59  | I 45 53  | 5 8 29  |         |          |       |         |         |          |       |
| 10      | 0 58 19  | 5 0 1    | I 45 51  | 5 8 32  |         |          |       |         |         |          |       |
| 20      | 0 58 51  | 5 0 2    | I 45 49  | 5 8 36  |         |          |       |         |         |          |       |
| 30      | 0 59 22  | 5 0 4    | I 45 46  | 5 8 39  |         |          |       |         |         |          |       |
| 40      | 0 59 54  | 5 0 6    | I 45 43  | 5 8 42  |         |          |       |         |         |          |       |
| 50      | I 0 25   | 5 0 8    | I 45 40  | 5 8 45  |         |          |       |         |         |          |       |
| 17      | I 0 56   | 5 0 10   | I 45 36  | 5 8 49  |         |          |       |         |         |          |       |
| 10      | I 1 27   | 5 0 12   | I 45 33  | 5 8 52  |         |          |       |         |         |          |       |
| 20      | I 1 58   | 5 0 14   | I 45 29  | 5 8 55  |         |          |       |         |         |          |       |
| 30      | I 2 28   | 5 0 16   | I 45 25  | 5 8 58  |         |          |       |         |         |          |       |
| 40      | I 2 59   | 5 0 18   | I 45 21  | 5 9 2   |         |          |       |         |         |          |       |
| 50      | I 3 29   | 5 0 20   | I 45 17  | 5 9 5   |         |          |       |         |         |          |       |
| 18      | I 4 0    | 5 0 22   | I 45 13  | 5 9 8   |         |          |       |         |         |          |       |
|         | II vel 5 |          | IO vel 4 |         |         |          |       |         |         |          |       |
|         |          |          |          |         |         |          |       |         |         |          |       |

Adde

G 3



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Tabula Aequationis nodorum Luna.

| Diffan. vera | Subtrahe      |    |          |   |               |    |          |    |               |   |          |    | Diffan. vera |  |
|--------------|---------------|----|----------|---|---------------|----|----------|----|---------------|---|----------|----|--------------|--|
|              | 0 vel 6       |    |          |   | 1 vel 7       |    |          |    | 2 vel 8       |   |          |    |              |  |
|              | Acq. $\Omega$ |    | Lat. Ma. |   | Acq. $\Omega$ |    | Lat. Ma. |    | Acq. $\Omega$ |   | Lat. Ma. |    |              |  |
|              | P             | i  | u        | P | i             | u  | P        | i  | u             | P | i        | u  |              |  |
| 18           | I             | 4  | 0        | 5 | 0             | 22 | I        | 45 | 13            | 5 | 9        | 8  | 12           |  |
| 10           | I             | 4  | 30       | 5 | 0             | 24 | I        | 45 | 8             | 5 | 9        | 11 | 50           |  |
| 20           | I             | 5  | 0        | 5 | 0             | 26 | I        | 45 | 3             | 5 | 9        | 15 | 40           |  |
| 30           | I             | 5  | 30       | 5 | 0             | 28 | I        | 44 | 58            | 5 | 9        | 18 | 30           |  |
| 40           | I             | 6  | 0        | 5 | 0             | 30 | I        | 44 | 53            | 5 | 9        | 21 | 20           |  |
| 50           | I             | 6  | 29       | 5 | 0             | 32 | I        | 44 | 47            | 5 | 9        | 25 | 10           |  |
| 19           | I             | 6  | 59       | 5 | 0             | 34 | I        | 44 | 41            | 5 | 9        | 28 | 11           |  |
| 10           | I             | 7  | 28       | 5 | 0             | 36 | I        | 44 | 35            | 5 | 9        | 31 | 50           |  |
| 20           | I             | 7  | 58       | 5 | 0             | 38 | I        | 44 | 29            | 5 | 9        | 34 | 40           |  |
| 30           | I             | 8  | 27       | 5 | 0             | 41 | I        | 44 | 22            | 5 | 9        | 38 | 30           |  |
| 40           | I             | 8  | 56       | 5 | 0             | 43 | I        | 44 | 15            | 5 | 9        | 41 | 20           |  |
| 50           | I             | 9  | 25       | 5 | 0             | 45 | I        | 44 | 8             | 5 | 9        | 44 | 10           |  |
| 20           | I             | 9  | 53       | 5 | 0             | 47 | I        | 44 | 0             | 5 | 9        | 47 | 10           |  |
| 10           | I             | 10 | 22       | 5 | 0             | 49 | I        | 43 | 52            | 5 | 9        | 51 | 50           |  |
| 20           | I             | 10 | 50       | 5 | 0             | 51 | I        | 43 | 44            | 5 | 9        | 54 | 40           |  |
| 30           | I             | 11 | 18       | 5 | 0             | 54 | I        | 43 | 36            | 5 | 9        | 57 | 30           |  |
| 40           | I             | 11 | 46       | 5 | 0             | 56 | I        | 43 | 28            | 5 | 10       | 0  | 20           |  |
| 50           | I             | 12 | 14       | 5 | 0             | 58 | I        | 43 | 19            | 5 | 10       | 4  | 10           |  |
| 21           | I             | 12 | 42       | 5 | 1             | 0  | I        | 43 | 10            | 5 | 10       | 7  | 9            |  |
| 10           | I             | 13 | 9        | 5 | 1             | 2  | I        | 43 | 1             | 5 | 10       | 10 | 50           |  |
| 20           | I             | 13 | 37       | 5 | 1             | 5  | I        | 42 | 52            | 5 | 10       | 13 | 40           |  |
| 30           | I             | 14 | 4        | 5 | 1             | 7  | I        | 42 | 43            | 5 | 10       | 16 | 30           |  |
| 40           | I             | 14 | 31       | 5 | 1             | 9  | I        | 42 | 33            | 5 | 10       | 20 | 20           |  |
| 50           | I             | 14 | 58       | 5 | 1             | 12 | I        | 42 | 24            | 5 | 10       | 23 | 10           |  |
| 22           | I             | 15 | 25       | 5 | 1             | 14 | I        | 42 | 14            | 5 | 10       | 26 | 9            |  |
| 10           | I             | 15 | 51       | 5 | 1             | 17 | I        | 42 | 4             | 5 | 10       | 39 | 50           |  |
| 20           | I             | 16 | 18       | 5 | 1             | 19 | I        | 41 | 54            | 5 | 10       | 33 | 40           |  |
| 30           | I             | 16 | 44       | 5 | 1             | 22 | I        | 41 | 43            | 5 | 10       | 36 | 30           |  |
| 40           | I             | 17 | 10       | 5 | 1             | 24 | I        | 41 | 32            | 5 | 10       | 39 | 20           |  |
| 50           | I             | 17 | 36       | 5 | 1             | 27 | I        | 41 | 21            | 5 | 10       | 42 | 10           |  |
| 23           | I             | 18 | 2        | 5 | 1             | 29 | I        | 41 | 10            | 5 | 10       | 45 | 9            |  |
| 10           | I             | 18 | 27       | 5 | 1             | 32 | I        | 40 | 58            | 5 | 10       | 48 | 50           |  |
| 20           | I             | 18 | 53       | 5 | 1             | 34 | I        | 40 | 47            | 5 | 10       | 51 | 40           |  |
| 30           | I             | 19 | 18       | 5 | 1             | 37 | I        | 40 | 35            | 5 | 10       | 55 | 30           |  |
| 40           | I             | 19 | 43       | 5 | 1             | 39 | I        | 40 | 23            | 5 | 10       | 58 | 20           |  |
| 50           | I             | 20 | 8        | 5 | 1             | 42 | I        | 40 | 11            | 5 | 11       | 1  | 10           |  |
| 24           | I             | 20 | 33       | 5 | 1             | 44 | I        | 39 | 59            | 5 | 11       | 4  | 6            |  |
|              | 11 vel 5      |    |          |   | 10 vel 4      |    |          |    | 9 vel 3       |   |          |    |              |  |
|              | Adde          |    |          |   |               |    |          |    |               |   |          |    |              |  |



| vel 8    |   |       | Diffan. vera |
|----------|---|-------|--------------|
| Lat. Ma. | P | i u   |              |
| 0        | 5 | 16 42 | 12           |
| 27       | 5 | 16 43 | 50           |
| 54       | 5 | 16 45 | 40           |
| 20       | 5 | 16 46 | 30           |
| 47       | 5 | 16 49 | 20           |
| 13       | 5 | 16 49 | 10           |
| 40       | 5 | 16 50 | 11           |
| 6        | 5 | 16 51 | 50           |
| 33       | 5 | 16 52 | 40           |
| 59       | 5 | 16 54 | 30           |
| 26       | 5 | 16 55 | 20           |
| 52       | 5 | 16 56 | 10           |
| 18       | 5 | 16 57 | 10           |
| 44       | 5 | 16 58 | 50           |
| 10       | 5 | 16 59 | 40           |
| 36       | 5 | 17 0  | 30           |
| 1        | 5 | 17 1  | 20           |
| 27       | 5 | 17 2  | 10           |
| 53       | 5 | 17 3  | 9            |
| 18       | 5 | 17 4  | 50           |
| 44       | 5 | 17 5  | 40           |
| 9        | 5 | 17 6  | 30           |
| 35       | 5 | 17 7  | 20           |
| 0        | 5 | 17 8  | 10           |
| 26       | 5 | 17 9  | 8            |
| 51       | 5 | 17 10 | 50           |
| 16       | 5 | 17 11 | 40           |
| 42       | 5 | 17 11 | 30           |
| 7        | 5 | 17 12 | 20           |
| 32       | 5 | 17 13 | 10           |
| 57       | 5 | 17 14 | 7            |
| 22       | 5 | 17 14 | 50           |
| 47       | 5 | 17 15 | 40           |
| 12       | 5 | 17 16 | 30           |
| 36       | 5 | 17 16 | 20           |
| 1        | 5 | 17 17 | 10           |
| 26       | 5 | 17 18 | 6            |
| vel 3    |   |       |              |

| Diffan. vera | Subtrahe |       |          |          |         |       |          |         |         |       |          |       | Diffan. vera |
|--------------|----------|-------|----------|----------|---------|-------|----------|---------|---------|-------|----------|-------|--------------|
|              | 0 vel 6  |       |          |          | 1 vel 7 |       |          |         | 2 vel 8 |       |          |       |              |
|              | Acq. 8   |       | Lat. Ma. |          | Acq. 8  |       | Lat. Ma. |         | Acq. 8  |       | Lat. Ma. |       |              |
|              | P        | i u   | P        | i u      | P       | i u   | P        | i u     | P       | i u   | P        | i u   |              |
| 24           | 1        | 20 33 | 5        | 1 44     | 1       | 39 59 | 5        | 11 4    | 0       | 21 26 | 5        | 17 18 | 6            |
| 10           | 1        | 20 57 | 5        | 1 47     | 1       | 39 46 | 5        | 11 7    | 0       | 20 51 | 5        | 17 18 | 50           |
| 20           | 1        | 21 22 | 5        | 1 49     | 1       | 39 34 | 5        | 11 10   | 0       | 20 16 | 5        | 17 19 | 40           |
| 30           | 1        | 21 46 | 5        | 1 52     | 1       | 39 21 | 5        | 11 14   | 0       | 19 40 | 5        | 17 20 | 30           |
| 40           | 1        | 22 10 | 5        | 1 54     | 1       | 39 8  | 5        | 11 17   | 0       | 19 5  | 5        | 17 20 | 20           |
| 50           | 1        | 22 34 | 5        | 1 57     | 1       | 38 55 | 5        | 11 20   | 0       | 18 29 | 5        | 17 21 | 10           |
| 25           | 1        | 22 58 | 5        | 1 59     | 1       | 38 42 | 5        | 11 23   | 0       | 17 54 | 5        | 17 22 | 5            |
| 10           | 1        | 23 21 | 5        | 2 2      | 1       | 38 29 | 5        | 11 26   | 0       | 17 18 | 5        | 17 22 | 50           |
| 20           | 1        | 23 45 | 5        | 2 4      | 1       | 38 15 | 5        | 11 29   | 0       | 16 43 | 5        | 17 23 | 40           |
| 30           | 1        | 24 8  | 5        | 2 7      | 1       | 38 1  | 5        | 11 32   | 0       | 16 7  | 5        | 17 23 | 30           |
| 40           | 1        | 24 31 | 5        | 2 10     | 1       | 37 47 | 5        | 11 35   | 0       | 15 32 | 5        | 17 24 | 20           |
| 50           | 1        | 24 54 | 5        | 2 12     | 1       | 37 33 | 5        | 11 38   | 0       | 14 56 | 5        | 17 24 | 10           |
| 26           | 1        | 25 16 | 5        | 2 15     | 1       | 37 18 | 5        | 11 41   | 0       | 14 21 | 5        | 17 25 | 4            |
| 10           | 1        | 25 39 | 5        | 2 18     | 1       | 37 3  | 5        | 11 44   | 0       | 13 45 | 5        | 17 25 | 50           |
| 20           | 1        | 26 1  | 5        | 2 20     | 1       | 36 48 | 5        | 11 47   | 0       | 13 9  | 5        | 17 26 | 40           |
| 30           | 1        | 26 23 | 5        | 2 23     | 1       | 36 33 | 5        | 11 50   | 0       | 12 34 | 5        | 17 26 | 30           |
| 40           | 1        | 26 45 | 5        | 2 26     | 1       | 36 18 | 5        | 11 53   | 0       | 11 57 | 5        | 17 26 | 20           |
| 50           | 1        | 27 7  | 5        | 2 28     | 1       | 36 2  | 5        | 11 56   | 0       | 11 22 | 5        | 17 27 | 10           |
| 27           | 1        | 27 28 | 5        | 2 31     | 1       | 35 46 | 5        | 11 59   | 0       | 10 46 | 5        | 17 27 | 3            |
| 10           | 1        | 27 50 | 5        | 2 34     | 1       | 35 30 | 5        | 12 2    | 0       | 10 10 | 5        | 17 27 | 50           |
| 20           | 1        | 28 11 | 5        | 2 37     | 1       | 35 14 | 5        | 12 5    | 0       | 9 34  | 5        | 17 28 | 40           |
| 30           | 1        | 28 32 | 5        | 2 39     | 1       | 34 58 | 5        | 12 8    | 0       | 8 59  | 5        | 17 28 | 30           |
| 40           | 1        | 28 53 | 5        | 2 42     | 1       | 34 41 | 5        | 12 11   | 0       | 8 23  | 5        | 17 28 | 20           |
| 50           | 1        | 29 14 | 5        | 2 45     | 1       | 34 25 | 5        | 12 14   | 0       | 7 47  | 5        | 17 29 | 10           |
| 28           | 1        | 29 34 | 5        | 2 48     | 1       | 34 8  | 5        | 12 17   | 0       | 7 11  | 5        | 17 29 | 2            |
| 10           | 1        | 29 55 | 5        | 2 51     | 1       | 33 51 | 5        | 12 20   | 0       | 6 35  | 5        | 17 29 | 50           |
| 20           | 1        | 30 15 | 5        | 2 54     | 1       | 33 34 | 5        | 12 23   | 0       | 6 0   | 5        | 17 29 | 40           |
| 30           | 1        | 30 35 | 5        | 2 57     | 1       | 33 17 | 5        | 12 25   | 0       | 5 24  | 5        | 17 29 | 30           |
| 40           | 1        | 30 55 | 5        | 3 0      | 1       | 32 59 | 5        | 12 28   | 0       | 4 48  | 5        | 17 30 | 20           |
| 50           | 1        | 31 15 | 5        | 3 2      | 1       | 32 41 | 5        | 12 31   | 0       | 4 12  | 5        | 17 30 | 10           |
| 29           | 1        | 31 34 | 5        | 3 5      | 1       | 32 23 | 5        | 12 34   | 0       | 3 36  | 5        | 17 30 | 1            |
| 10           | 1        | 31 54 | 5        | 3 8      | 1       | 32 5  | 5        | 12 37   | 0       | 3 0   | 5        | 17 30 | 50           |
| 20           | 1        | 32 13 | 5        | 3 11     | 1       | 31 47 | 5        | 12 40   | 0       | 2 24  | 5        | 17 30 | 40           |
| 30           | 1        | 32 32 | 5        | 3 13     | 1       | 31 28 | 5        | 12 42   | 0       | 1 48  | 5        | 17 30 | 30           |
| 40           | 1        | 32 51 | 5        | 3 16     | 1       | 31 10 | 5        | 12 45   | 0       | 1 12  | 5        | 17 30 | 20           |
| 50           | 1        | 33 10 | 5        | 3 19     | 1       | 30 51 | 5        | 12 48   | 0       | 0 36  | 5        | 17 30 | 10           |
| 30           | 1        | 33 28 | 5        | 3 22     | 1       | 30 32 | 5        | 12 51   | 0       | 0 0   | 5        | 17 30 | 0            |
| 11 vel 5     |          |       |          | 10 vel 4 |         |       |          | 9 vel 3 |         |       |          |       |              |
| Adde         |          |       |          |          |         |       |          |         |         |       |          |       |              |



| Anom.                               | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |   |    |   |    |    |    |    |    | Anom.    |  |  |  |  |  |  |  |
|-------------------------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|---|----|---|----|----|----|----|----|----------|--|--|--|--|--|--|--|
|                                     | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 |    |   |    |   |    |    |    |    |    |          |  |  |  |  |  |  |  |
|                                     | Subtrahere                          |    |    |    |    |    |    |    |    |    |    |    |   |    |   |    |    |    |    |    |          |  |  |  |  |  |  |  |
| 0                                   | I                                   | 7  | 2  | 14 | 3  | 21 | 4  | 28 | 5  | 35 | 6  | 40 | 7 | 45 | 8 | 50 | 9  | 55 | 10 | 59 | 30       |  |  |  |  |  |  |  |
| 1                                   | I                                   | 7  | 2  | 14 | 3  | 21 | 4  | 28 | 5  | 36 | 6  | 42 | 7 | 47 | 8 | 53 | 9  | 59 | 11 | 3  | 29       |  |  |  |  |  |  |  |
| 2                                   | I                                   | 7  | 2  | 14 | 3  | 21 | 4  | 29 | 5  | 36 | 6  | 43 | 7 | 49 | 8 | 56 | 10 | 2  | 11 | 7  | 28       |  |  |  |  |  |  |  |
| 3                                   | I                                   | 7  | 2  | 15 | 3  | 22 | 4  | 29 | 5  | 37 | 6  | 44 | 7 | 51 | 8 | 58 | 10 | 5  | 11 | 10 | 27       |  |  |  |  |  |  |  |
| 4                                   | I                                   | 7  | 2  | 15 | 3  | 22 | 4  | 30 | 5  | 37 | 6  | 45 | 7 | 53 | 9 | 0  | 10 | 7  | 11 | 13 | 26       |  |  |  |  |  |  |  |
| 5                                   | I                                   | 7  | 2  | 15 | 3  | 22 | 4  | 30 | 5  | 38 | 6  | 46 | 7 | 54 | 9 | 1  | 10 | 9  | 11 | 16 | 25       |  |  |  |  |  |  |  |
| 6                                   | I                                   | 7  | 2  | 15 | 3  | 22 | 4  | 30 | 5  | 38 | 6  | 47 | 7 | 55 | 9 | 2  | 10 | 11 | 11 | 18 | 24       |  |  |  |  |  |  |  |
| 7                                   | I                                   | 6  | 2  | 14 | 3  | 21 | 4  | 29 | 5  | 38 | 6  | 47 | 7 | 56 | 9 | 3  | 10 | 12 | 11 | 20 | 23       |  |  |  |  |  |  |  |
| 8                                   | I                                   | 6  | 2  | 14 | 3  | 21 | 4  | 29 | 5  | 38 | 6  | 47 | 7 | 56 | 9 | 4  | 10 | 13 | 11 | 22 | 22       |  |  |  |  |  |  |  |
| 9                                   | I                                   | 6  | 2  | 13 | 3  | 20 | 4  | 28 | 5  | 38 | 6  | 47 | 7 | 56 | 9 | 4  | 10 | 14 | 11 | 24 | 21       |  |  |  |  |  |  |  |
| 10                                  | I                                   | 6  | 2  | 13 | 3  | 20 | 4  | 28 | 5  | 37 | 6  | 46 | 7 | 55 | 9 | 4  | 10 | 15 | 11 | 25 | 20       |  |  |  |  |  |  |  |
| 11                                  | I                                   | 5  | 2  | 12 | 3  | 19 | 4  | 27 | 5  | 36 | 6  | 45 | 7 | 54 | 9 | 3  | 10 | 15 | 11 | 25 | 19       |  |  |  |  |  |  |  |
| 12                                  | I                                   | 5  | 2  | 11 | 3  | 18 | 4  | 26 | 5  | 35 | 6  | 44 | 7 | 53 | 9 | 2  | 10 | 14 | 11 | 25 | 18       |  |  |  |  |  |  |  |
| 13                                  | I                                   | 4  | 2  | 10 | 3  | 17 | 4  | 25 | 5  | 33 | 6  | 42 | 7 | 52 | 9 | 1  | 10 | 13 | 11 | 24 | 17       |  |  |  |  |  |  |  |
| 14                                  | I                                   | 4  | 2  | 9  | 3  | 16 | 4  | 23 | 5  | 31 | 6  | 40 | 7 | 50 | 9 | 0  | 10 | 12 | 11 | 23 | 16       |  |  |  |  |  |  |  |
| 15                                  | I                                   | 4  | 2  | 8  | 3  | 14 | 4  | 21 | 5  | 29 | 6  | 38 | 7 | 48 | 8 | 58 | 10 | 10 | 11 | 22 | 15       |  |  |  |  |  |  |  |
| 16                                  | I                                   | 3  | 2  | 7  | 3  | 12 | 4  | 19 | 5  | 26 | 6  | 36 | 7 | 45 | 8 | 55 | 10 | 7  | 11 | 20 | 14       |  |  |  |  |  |  |  |
| 17                                  | I                                   | 3  | 2  | 5  | 3  | 10 | 4  | 16 | 5  | 24 | 6  | 33 | 7 | 42 | 8 | 52 | 10 | 4  | 11 | 17 | 13       |  |  |  |  |  |  |  |
| 18                                  | I                                   | 2  | 2  | 4  | 3  | 8  | 4  | 14 | 5  | 21 | 6  | 30 | 7 | 39 | 8 | 49 | 10 | 1  | 11 | 14 | 12       |  |  |  |  |  |  |  |
| 19                                  | I                                   | 1  | 2  | 2  | 3  | 6  | 4  | 12 | 5  | 18 | 6  | 27 | 7 | 35 | 8 | 45 | 9  | 57 | 11 | 10 | 11       |  |  |  |  |  |  |  |
| 20                                  | I                                   | 0  | 2  | 1  | 3  | 4  | 4  | 9  | 5  | 15 | 6  | 23 | 7 | 31 | 8 | 41 | 9  | 53 | 11 | 6  | 10       |  |  |  |  |  |  |  |
| 21                                  | 0                                   | 59 | 1  | 59 | 3  | 2  | 4  | 6  | 5  | 11 | 6  | 19 | 7 | 27 | 8 | 37 | 9  | 48 | 11 | 1  | 9        |  |  |  |  |  |  |  |
| 22                                  | 0                                   | 58 | 1  | 58 | 2  | 59 | 4  | 3  | 5  | 7  | 6  | 15 | 7 | 22 | 8 | 32 | 9  | 43 | 10 | 56 | 8        |  |  |  |  |  |  |  |
| 23                                  | 0                                   | 57 | 1  | 56 | 2  | 56 | 4  | 0  | 5  | 3  | 6  | 10 | 7 | 17 | 8 | 27 | 9  | 38 | 10 | 50 | 7        |  |  |  |  |  |  |  |
| 24                                  | 0                                   | 56 | 1  | 54 | 2  | 54 | 3  | 56 | 4  | 59 | 6  | 5  | 7 | 12 | 8 | 21 | 9  | 32 | 10 | 44 | 6        |  |  |  |  |  |  |  |
| 25                                  | 0                                   | 55 | 1  | 52 | 2  | 51 | 3  | 52 | 4  | 55 | 6  | 0  | 7 | 7  | 8 | 15 | 9  | 26 | 10 | 38 | 5        |  |  |  |  |  |  |  |
| 26                                  | 0                                   | 54 | 1  | 50 | 3  | 48 | 3  | 48 | 4  | 50 | 5  | 55 | 7 | 1  | 8 | 9  | 9  | 19 | 10 | 31 | 4        |  |  |  |  |  |  |  |
| 27                                  | 0                                   | 53 | 1  | 48 | 2  | 45 | 3  | 44 | 4  | 45 | 5  | 49 | 6 | 55 | 8 | 2  | 9  | 12 | 10 | 24 | 3        |  |  |  |  |  |  |  |
| 28                                  | 0                                   | 51 | 1  | 46 | 2  | 42 | 3  | 40 | 4  | 40 | 5  | 43 | 6 | 49 | 7 | 55 | 9  | 5  | 10 | 16 | 2        |  |  |  |  |  |  |  |
| 29                                  | 0                                   | 50 | 1  | 43 | 2  | 38 | 3  | 36 | 4  | 35 | 5  | 37 | 6 | 42 | 7 | 48 | 8  | 57 | 10 | 8  | 1        |  |  |  |  |  |  |  |
| 30                                  | 0                                   | 49 | 1  | 41 | 2  | 35 | 3  | 31 | 4  | 30 | 5  | 31 | 6 | 35 | 7 | 41 | 8  | 49 | 10 | 0  | 0        |  |  |  |  |  |  |  |
| corquata                            | Adde                                |    |    |    |    |    |    |    |    |    |    |    |   |    |   |    |    |    |    |    | corquata |  |  |  |  |  |  |  |
|                                     | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5 | 23 | 5 | 22 | 5  | 21 | 5  | 20 |          |  |  |  |  |  |  |  |
| Distantia vera ☉ à ☿, vel ab eius ☿ |                                     |    |    |    |    |    |    |    |    |    |    |    |   |    |   |    |    |    |    |    |          |  |  |  |  |  |  |  |



Ac Tab. Secundorum Mobilium.

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Composita & absoluta Luna.

| Anom. | 90 | 10 |
|-------|----|----|
| 55    | 10 | 59 |
| 59    | 11 | 3  |
| 0     | 2  | 11 |
| 0     | 5  | 11 |
| 0     | 7  | 11 |
| 0     | 9  | 11 |
| 0     | 11 | 11 |
| 0     | 12 | 11 |
| 0     | 13 | 11 |
| 0     | 14 | 11 |
| 0     | 15 | 11 |
| 0     | 15 | 11 |
| 0     | 14 | 11 |
| 0     | 13 | 11 |
| 0     | 12 | 11 |
| 0     | 10 | 11 |
| 0     | 7  | 11 |
| 0     | 4  | 11 |
| 0     | 1  | 11 |
| 0     | 57 | 11 |
| 0     | 53 | 11 |
| 0     | 48 | 11 |
| 0     | 43 | 10 |
| 0     | 38 | 10 |
| 0     | 32 | 10 |
| 0     | 26 | 10 |
| 0     | 19 | 10 |
| 0     | 12 | 10 |
| 0     | 5  | 10 |
| 0     | 57 | 10 |
| 0     | 49 | 10 |
| 5     | 21 | 5  |
| 20    |    |    |

| Anom.                               | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |      |          |   |    |   |    |    |    |    |    | Anom.    |  |  |  |  |  |
|-------------------------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|------|----------|---|----|---|----|----|----|----|----|----------|--|--|--|--|--|
|                                     | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100  | Subtrahe |   |    |   |    |    |    |    |    |          |  |  |  |  |  |
| 1                                   | 0                                   | 49 | 1  | 41 | 2  | 35 | 3  | 31 | 4  | 30 | 5    | 31       | 6 | 35 | 7 | 41 | 8  | 49 | 10 | 0  | 30       |  |  |  |  |  |
| 1                                   | 0                                   | 48 | 1  | 38 | 2  | 31 | 3  | 26 | 4  | 24 | 5    | 25       | 6 | 28 | 7 | 33 | 8  | 41 | 9  | 51 | 29       |  |  |  |  |  |
| 2                                   | 0                                   | 46 | 1  | 36 | 2  | 27 | 3  | 21 | 4  | 18 | 5    | 18       | 6 | 20 | 7 | 25 | 8  | 32 | 9  | 42 | 28       |  |  |  |  |  |
| 3                                   | 0                                   | 45 | 1  | 33 | 2  | 23 | 3  | 16 | 4  | 12 | 5    | 11       | 6 | 12 | 7 | 17 | 8  | 23 | 9  | 32 | 27       |  |  |  |  |  |
| 4                                   | 0                                   | 44 | 1  | 30 | 2  | 19 | 3  | 11 | 4  | 6  | 5    | 4        | 6 | 4  | 7 | 8  | 14 | 9  | 22 | 26 |          |  |  |  |  |  |
| 5                                   | 0                                   | 42 | 1  | 27 | 2  | 15 | 3  | 6  | 4  | 0  | 4    | 5        | 5 | 5  | 6 | 5  | 9  | 8  | 11 | 25 |          |  |  |  |  |  |
| 6                                   | 0                                   | 41 | 1  | 24 | 2  | 11 | 3  | 0  | 3  | 5  | 3    | 4        | 5 | 4  | 6 | 4  | 9  | 7  | 5  | 24 |          |  |  |  |  |  |
| 7                                   | 0                                   | 39 | 1  | 21 | 2  | 6  | 2  | 5  | 3  | 4  | 4    | 4        | 5 | 3  | 6 | 3  | 9  | 7  | 4  | 23 |          |  |  |  |  |  |
| 8                                   | 0                                   | 38 | 1  | 18 | 2  | 2  | 2  | 4  | 3  | 3  | 4    | 3        | 5 | 2  | 6 | 2  | 9  | 7  | 3  | 22 |          |  |  |  |  |  |
| 9                                   | 0                                   | 36 | 1  | 15 | 1  | 5  | 2  | 4  | 3  | 3  | 4    | 2        | 5 | 2  | 6 | 1  | 9  | 7  | 2  | 21 |          |  |  |  |  |  |
| 10                                  | 0                                   | 35 | 1  | 12 | 1  | 5  | 2  | 3  | 3  | 2  | 4    | 1        | 5 | 1  | 6 | 8  | 7  | 9  | 8  | 20 |          |  |  |  |  |  |
| 11                                  | 0                                   | 33 | 1  | 9  | 1  | 4  | 2  | 3  | 3  | 1  | 4    | 6        | 5 | 0  | 5 | 5  | 7  | 8  | 0  | 19 |          |  |  |  |  |  |
| 12                                  | 0                                   | 31 | 1  | 5  | 1  | 4  | 2  | 2  | 3  | 8  | 3    | 5        | 4 | 5  | 0 | 4  | 6  | 7  | 4  | 18 |          |  |  |  |  |  |
| 13                                  | 0                                   | 29 | 1  | 2  | 1  | 3  | 2  | 1  | 3  | 0  | 3    | 4        | 4 | 3  | 5 | 3  | 6  | 7  | 3  | 17 |          |  |  |  |  |  |
| 14                                  | 0                                   | 28 | 0  | 5  | 1  | 3  | 2  | 1  | 2  | 5  | 3    | 3        | 4 | 2  | 5 | 2  | 6  | 7  | 1  | 16 |          |  |  |  |  |  |
| 15                                  | 0                                   | 26 | 0  | 5  | 1  | 2  | 2  | 5  | 2  | 4  | 3    | 2        | 4 | 1  | 5 | 1  | 6  | 6  | 7  | 15 |          |  |  |  |  |  |
| 16                                  | 0                                   | 24 | 0  | 5  | 1  | 2  | 1  | 5  | 2  | 3  | 3    | 1        | 4 | 5  | 4 | 5  | 5  | 6  | 5  | 14 |          |  |  |  |  |  |
| 17                                  | 0                                   | 22 | 0  | 4  | 1  | 1  | 1  | 5  | 1  | 2  | 3    | 8        | 3 | 5  | 4 | 4  | 5  | 6  | 3  | 13 |          |  |  |  |  |  |
| 18                                  | 0                                   | 20 | 0  | 4  | 1  | 1  | 1  | 4  | 2  | 1  | 2    | 5        | 3 | 4  | 3 | 4  | 5  | 6  | 1  | 12 |          |  |  |  |  |  |
| 19                                  | 0                                   | 18 | 0  | 3  | 1  | 5  | 1  | 3  | 2  | 9  | 2    | 4        | 3 | 3  | 4 | 1  | 5  | 6  | 3  | 11 |          |  |  |  |  |  |
| 20                                  | 0                                   | 16 | 0  | 3  | 1  | 0  | 1  | 2  | 2  | 0  | 2    | 3        | 3 | 1  | 4 | 4  | 5  | 5  | 4  | 10 |          |  |  |  |  |  |
| 21                                  | 0                                   | 14 | 0  | 3  | 1  | 0  | 1  | 2  | 1  | 5  | 2    | 2        | 3 | 6  | 3 | 5  | 4  | 5  | 3  | 9  |          |  |  |  |  |  |
| 22                                  | 0                                   | 12 | 0  | 2  | 0  | 4  | 1  | 1  | 1  | 4  | 2    | 1        | 2 | 5  | 3 | 3  | 4  | 5  | 1  | 8  |          |  |  |  |  |  |
| 23                                  | 0                                   | 11 | 0  | 2  | 0  | 4  | 1  | 5  | 1  | 3  | 2    | 4        | 2 | 4  | 3 | 2  | 4  | 5  | 4  | 7  |          |  |  |  |  |  |
| 24                                  | 0                                   | 9  | 0  | 2  | 0  | 3  | 0  | 5  | 1  | 2  | 1    | 5        | 2 | 2  | 3 | 6  | 3  | 4  | 3  | 6  |          |  |  |  |  |  |
| 25                                  | 0                                   | 7  | 0  | 1  | 0  | 3  | 0  | 4  | 1  | 1  | 1    | 4        | 2 | 1  | 2 | 5  | 3  | 3  | 4  | 5  |          |  |  |  |  |  |
| 26                                  | 0                                   | 5  | 0  | 1  | 0  | 2  | 0  | 4  | 1  | 1  | 2    | 1        | 2 | 0  | 2 | 3  | 3  | 1  | 3  | 4  |          |  |  |  |  |  |
| 27                                  | 0                                   | 3  | 0  | 8  | 0  | 1  | 0  | 3  | 0  | 5  | 1    | 1        | 1 | 4  | 2 | 2  | 2  | 5  | 3  | 3  |          |  |  |  |  |  |
| 28                                  | 0                                   | A  | 1  | 0  | 3  | 0  | 1  | 1  | 0  | 4  | 1    | 1        | 3 | 2  | 2 | 4  | 2  | 4  | 3  | 2  |          |  |  |  |  |  |
| 29                                  | 0                                   | 3  | 0  | A  | 1  | 0  | 5  | 0  | 1  | 0  | 5    | 1        | 1 | 7  | 1 | 4  | 2  | 2  | 3  | 1  |          |  |  |  |  |  |
| 30                                  | 0                                   | 4  | 0  | 5  | 0  | 2  | 0  | 7  | 0  | 2  | 0    | 3        | 1 | 2  | 1 | 3  | 2  | 4  | 2  | 1  |          |  |  |  |  |  |
| corrupta                            | Subtrahe                            |    |    |    |    |    |    |    |    |    | Adde |          |   |    |   |    |    |    |    |    | corrupta |  |  |  |  |  |
|                                     | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5    | 24       | 5 | 23 | 5 | 22 | 5  | 21 | 5  | 20 |          |  |  |  |  |  |
| Distantia vera ☉ à ☿, vel ab eius ☿ |                                     |    |    |    |    |    |    |    |    |    |      |          |   |    |   |    |    |    |    |    |          |  |  |  |  |  |



| Distantia vera ☉ à ☼, vel ab eius ☿               |      |    |    |    |    |    |    |    |    |    |     |    |          |    |    |    |    |    |    |    |    |    |  |       |
|---|------|----|----|----|----|----|----|----|----|----|-----|----|----------|----|----|----|----|----|----|----|----|----|--|-------|
| Anom.   | Adde |    |    |    |    |    |    |    |    |    |     |    | Subtrahe |    |    |    |    |    |    |    |    |    |  | Anom. |
|   | 0    | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 1  | 2        | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 |    |  |       |
| 2   | 0    | 4  | 0  | 5  | 0  | 2  | 0  | A  | 7  | 0  | 20  | 0  | 38       | 1  | 2  | 1  | 31 | 2  | 4  | 2  | 41 | 30 |  |       |
| 1   | 0    | 7  | 0  | 10 | 0  | 8  | 0  | A  | 2  | 0  | 9   | 0  | 25       | 0  | 47 | 1  | 14 | 1  | 45 | 2  | 20 | 29 |  |       |
| 2   | 0    | 10 | 0  | 15 | 0  | 15 | 0  | 11 | 0  | A  | 2   | 0  | 32       | 0  | 37 | 0  | 57 | 1  | 26 | 2  | 0  | 28 |  |       |
| 3   | 0    | 12 | 0  | 20 | 0  | 22 | 0  | 20 | 0  | 14 | 0   | A  | 1        | 0  | 17 | 0  | 40 | 1  | 7  | 1  | 39 | 27 |  |       |
| 4   | 0    | 15 | 0  | 24 | 0  | 29 | 0  | 29 | 0  | 25 | 0   | 15 | 0        | A  | 1  | 0  | 23 | 0  | 48 | 1  | 18 | 26 |  |       |
| 5   | 0    | 17 | 0  | 29 | 0  | 36 | 0  | 39 | 0  | 36 | 0   | 28 | 0        | 14 | 0  | A  | 5  | 0  | 28 | 0  | 57 | 25 |  |       |
| 6   | 0    | 20 | 0  | 33 | 0  | 43 | 0  | 48 | 0  | 48 | 0   | 42 | 0        | 30 | 0  | A  | 13 | 0  | 8  | 0  | 35 | 24 |  |       |
| 7   | 0    | 22 | 0  | 38 | 0  | 50 | 0  | 58 | 1  | 0  | 0   | 56 | 0        | 46 | 0  | 31 | 0  | A  | 12 | 0  | 13 | 23 |  |       |
| 8   | 0    | 25 | 0  | 43 | 0  | 57 | 1  | 7  | 1  | 11 | 1   | 10 | 1        | 2  | 0  | 49 | 0  | 32 | 0  | 9  | 22 |    |  |       |
| 9   | 0    | 27 | 0  | 48 | 1  | 5  | 1  | 17 | 1  | 23 | 1   | 24 | 1        | 19 | 1  | 8  | 0  | 53 | 0  | 32 | 21 |    |  |       |
| 10  | 0    | 29 | 0  | 53 | 1  | 12 | 1  | 26 | 1  | 35 | 1   | 38 | 1        | 35 | 1  | 27 | 1  | 14 | 0  | 55 | 20 |    |  |       |
| 11  | 0    | 32 | 0  | 58 | 1  | 19 | 1  | 36 | 1  | 47 | 1   | 53 | 1        | 52 | 1  | 46 | 1  | 35 | 1  | 18 | 19 |    |  |       |
| 12  | 0    | 34 | 1  | 3  | 1  | 27 | 1  | 46 | 1  | 59 | 2   | 7  | 2        | 9  | 2  | 5  | 1  | 56 | 1  | 41 | 18 |    |  |       |
| 13  | 0    | 37 | 1  | 8  | 1  | 34 | 1  | 56 | 2  | 12 | 2   | 22 | 2        | 26 | 2  | 24 | 2  | 18 | 2  | 5  | 17 |    |  |       |
| 14  | 0    | 39 | 1  | 14 | 1  | 42 | 2  | 6  | 2  | 24 | 2   | 37 | 2        | 44 | 2  | 44 | 2  | 40 | 2  | 29 | 16 |    |  |       |
| 15  | 0    | 42 | 1  | 19 | 1  | 50 | 2  | 16 | 2  | 37 | 2   | 52 | 3        | 13 | 3  | 43 | 3  | 2  | 2  | 53 | 15 |    |  |       |
| 16  | 0    | 44 | 1  | 24 | 1  | 57 | 2  | 27 | 2  | 50 | 3   | 7  | 3        | 19 | 3  | 24 | 3  | 24 | 3  | 17 | 14 |    |  |       |
| 17  | 0    | 47 | 1  | 30 | 2  | 5  | 2  | 37 | 3  | 23 | 3   | 22 | 3        | 36 | 3  | 44 | 3  | 46 | 3  | 42 | 13 |    |  |       |
| 18  | 0    | 50 | 1  | 35 | 2  | 13 | 2  | 48 | 3  | 15 | 3   | 38 | 3        | 54 | 4  | 4  | 4  | 9  | 4  | 7  | 12 |    |  |       |
| 19  | 0    | 52 | 1  | 40 | 2  | 21 | 2  | 58 | 3  | 28 | 3   | 53 | 4        | 11 | 4  | 25 | 4  | 31 | 4  | 32 | 11 |    |  |       |
| 20  | 0    | 55 | 1  | 45 | 2  | 29 | 3  | 8  | 3  | 41 | 4   | 8  | 4        | 29 | 4  | 45 | 4  | 54 | 4  | 57 | 10 |    |  |       |
| 21  | 0    | 58 | 1  | 51 | 2  | 37 | 3  | 19 | 3  | 54 | 4   | 24 | 4        | 47 | 5  | 6  | 5  | 17 | 5  | 23 | 9  |    |  |       |
| 22  | 1    | 0  | 1  | 56 | 2  | 45 | 3  | 29 | 4  | 7  | 4   | 39 | 5        | 5  | 5  | 26 | 5  | 40 | 5  | 48 | 8  |    |  |       |
| 23  | 1    | 3  | 2  | 1  | 2  | 53 | 3  | 40 | 4  | 20 | 4   | 55 | 5        | 23 | 5  | 47 | 6  | 4  | 6  | 14 | 7  |    |  |       |
| 24  | 1    | 6  | 2  | 7  | 3  | 1  | 3  | 50 | 4  | 34 | 5   | 11 | 5        | 42 | 6  | 8  | 6  | 27 | 6  | 40 | 6  |    |  |       |
| 25  | 1    | 9  | 2  | 12 | 3  | 9  | 4  | 1  | 4  | 47 | 5   | 27 | 6        | 1  | 6  | 29 | 6  | 51 | 7  | 6  | 5  |    |  |       |
| 26  | 1    | 11 | 2  | 17 | 3  | 17 | 4  | 12 | 5  | 0  | 5   | 43 | 6        | 19 | 6  | 50 | 7  | 15 | 7  | 32 | 4  |    |  |       |
| 27  | 1    | 14 | 2  | 23 | 3  | 26 | 4  | 22 | 5  | 14 | 5   | 59 | 6        | 37 | 7  | 11 | 7  | 38 | 7  | 59 | 3  |    |  |       |
| 28  | 1    | 16 | 2  | 28 | 3  | 34 | 4  | 33 | 5  | 27 | 6   | 14 | 6        | 56 | 7  | 33 | 8  | 2  | 8  | 25 | 2  |    |  |       |
| 29  | 1    | 19 | 2  | 33 | 3  | 42 | 4  | 44 | 5  | 41 | 6   | 30 | 7        | 14 | 7  | 54 | 8  | 26 | 8  | 52 | 1  |    |  |       |
| 30  | 1    | 22 | 2  | 39 | 3  | 50 | 4  | 55 | 5  | 54 | 6   | 46 | 7        | 33 | 8  | 15 | 8  | 50 | 9  | 19 | 9  |    |  |       |
| Subtrahe  |      |    |    |    |    |    |    |    |    |    |     |    |          |    |    |    |    |    |    |    |    |    |  |       |
| 5 29 5 28 5 27 5 26 5 25 5 24 5 23 5 22 5 21 5 20 |      |    |    |    |    |    |    |    |    |    |     |    |          |    |    |    |    |    |    |    |    |    |  |       |
| Distantia vera ☉ à ☼, vel ab eius ☿               |      |    |    |    |    |    |    |    |    |    |     |    |          |    |    |    |    |    |    |    |    |    |  |       |



| Anom. |    | 90 | 10 |
|-------|----|----|----|
| 1     | 2  | 4  | 2  |
| 1     | 4  | 2  | 20 |
| 1     | 26 | 2  | 0  |
| 1     | 7  | 1  | 39 |
| 0     | 48 | 1  | 18 |
| 0     | 28 | 0  | 57 |
| 0     | 8  | 0  | 35 |
| 0     | 12 | 0  | 13 |
| 0     | 32 | 0  | 9  |
| 0     | 53 | 0  | 32 |
| 1     | 14 | 0  | 55 |
| 1     | 35 | 1  | 18 |
| 1     | 56 | 1  | 41 |
| 2     | 18 | 2  | 5  |
| 2     | 40 | 2  | 29 |
| 3     | 2  | 2  | 53 |
| 3     | 24 | 3  | 17 |
| 3     | 46 | 3  | 42 |
| 4     | 9  | 4  | 7  |
| 4     | 31 | 4  | 32 |
| 4     | 54 | 4  | 57 |
| 5     | 17 | 5  | 23 |
| 5     | 40 | 5  | 48 |
| 6     | 4  | 6  | 14 |
| 6     | 27 | 6  | 40 |
| 6     | 51 | 7  | 6  |
| 7     | 15 | 7  | 32 |
| 7     | 38 | 7  | 59 |
| 8     | 2  | 8  | 25 |
| 8     | 26 | 8  | 52 |
| 8     | 50 | 9  | 19 |
| 21    |    | 5  | 20 |

| Anom.     |   | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.     |    |
|-----------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----|
|           |   | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90        | 10 |
|           |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |    |
|           |   | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19        | 20 |
| 3         | 1 | 22                                  | 2  | 39 | 3  | 50 | 4  | 55 | 5  | 54 | 6  | 46 | 7  | 33 | 8  | 15 | 8  | 50 | 9  | 19        | 30 |
| 1         | 1 | 25                                  | 2  | 44 | 3  | 58 | 5  | 6  | 6  | 7  | 7  | 2  | 7  | 52 | 8  | 37 | 9  | 14 | 9  | 46        | 29 |
| 2         | 1 | 27                                  | 2  | 50 | 4  | 7  | 5  | 17 | 6  | 21 | 7  | 18 | 8  | 11 | 8  | 58 | 9  | 38 | 10 | 13        | 28 |
| 3         | 1 | 30                                  | 2  | 55 | 4  | 15 | 5  | 28 | 6  | 34 | 7  | 35 | 8  | 30 | 9  | 20 | 10 | 3  | 10 | 40        | 27 |
| 4         | 1 | 33                                  | 3  | 1  | 4  | 23 | 5  | 39 | 6  | 48 | 7  | 51 | 8  | 49 | 9  | 42 | 10 | 27 | 11 | 7         | 26 |
| 5         | 1 | 36                                  | 3  | 6  | 4  | 31 | 5  | 50 | 7  | 2  | 8  | 8  | 9  | 9  | 10 | 4  | 10 | 52 | 11 | 34        | 25 |
| 6         | 1 | 39                                  | 3  | 12 | 4  | 39 | 6  | 1  | 7  | 15 | 8  | 24 | 9  | 28 | 10 | 26 | 11 | 16 | 12 | 1         | 24 |
| 7         | 1 | 41                                  | 3  | 17 | 4  | 48 | 6  | 12 | 7  | 29 | 8  | 41 | 9  | 47 | 10 | 48 | 11 | 41 | 12 | 29        | 23 |
| 8         | 1 | 44                                  | 3  | 23 | 4  | 56 | 6  | 22 | 7  | 42 | 8  | 57 | 10 | 7  | 11 | 10 | 12 | 6  | 12 | 56        | 22 |
| 9         | 1 | 47                                  | 3  | 28 | 5  | 4  | 6  | 33 | 7  | 56 | 9  | 14 | 10 | 26 | 11 | 33 | 12 | 31 | 13 | 24        | 21 |
| 10        | 1 | 50                                  | 3  | 34 | 5  | 12 | 6  | 44 | 8  | 10 | 9  | 31 | 10 | 46 | 11 | 55 | 12 | 56 | 13 | 51        | 20 |
| 11        | 1 | 53                                  | 3  | 39 | 5  | 20 | 6  | 55 | 8  | 23 | 9  | 47 | 11 | 5  | 12 | 17 | 13 | 20 | 14 | 18        | 19 |
| 12        | 1 | 55                                  | 3  | 45 | 5  | 29 | 7  | 5  | 8  | 37 | 10 | 4  | 11 | 24 | 12 | 39 | 13 | 45 | 14 | 46        | 18 |
| 13        | 1 | 58                                  | 3  | 51 | 5  | 37 | 7  | 16 | 8  | 50 | 10 | 20 | 11 | 44 | 13 | 1  | 14 | 10 | 15 | 13        | 17 |
| 14        | 2 | 1                                   | 3  | 56 | 5  | 45 | 7  | 27 | 9  | 4  | 10 | 37 | 12 | 3  | 13 | 22 | 14 | 34 | 15 | 41        | 16 |
| 15        | 2 | 4                                   | 4  | 2  | 5  | 53 | 7  | 38 | 9  | 18 | 10 | 53 | 12 | 22 | 13 | 44 | 14 | 59 | 16 | 8         | 15 |
| 16        | 2 | 7                                   | 4  | 7  | 6  | 1  | 17 | 49 | 9  | 31 | 11 | 10 | 12 | 41 | 14 | 6  | 15 | 24 | 16 | 36        | 14 |
| 17        | 2 | 9                                   | 4  | 12 | 6  | 9  | 7  | 59 | 9  | 45 | 11 | 26 | 13 | 0  | 14 | 28 | 15 | 49 | 17 | 3         | 13 |
| 18        | 2 | 12                                  | 4  | 18 | 6  | 17 | 8  | 10 | 9  | 58 | 11 | 43 | 13 | 19 | 14 | 50 | 16 | 14 | 17 | 31        | 12 |
| 19        | 2 | 15                                  | 4  | 23 | 6  | 25 | 8  | 21 | 10 | 12 | 11 | 59 | 13 | 38 | 15 | 11 | 16 | 39 | 17 | 58        | 11 |
| 20        | 2 | 17                                  | 4  | 28 | 6  | 33 | 8  | 32 | 10 | 26 | 12 | 15 | 13 | 57 | 15 | 33 | 17 | 3  | 18 | 26        | 10 |
| 21        | 2 | 20                                  | 4  | 33 | 6  | 41 | 8  | 42 | 10 | 39 | 12 | 31 | 14 | 16 | 15 | 55 | 17 | 28 | 18 | 53        | 9  |
| 22        | 2 | 22                                  | 4  | 39 | 6  | 49 | 8  | 53 | 10 | 53 | 12 | 47 | 14 | 35 | 16 | 16 | 17 | 52 | 19 | 21        | 8  |
| 23        | 2 | 25                                  | 4  | 44 | 6  | 56 | 9  | 4  | 11 | 6  | 13 | 3  | 14 | 53 | 16 | 38 | 18 | 16 | 19 | 48        | 7  |
| 24        | 2 | 28                                  | 4  | 49 | 7  | 4  | 9  | 14 | 11 | 20 | 13 | 19 | 15 | 12 | 16 | 59 | 18 | 40 | 20 | 15        | 6  |
| 25        | 2 | 30                                  | 4  | 54 | 7  | 12 | 9  | 25 | 11 | 33 | 13 | 35 | 15 | 31 | 17 | 20 | 19 | 4  | 20 | 42        | 5  |
| 26        | 2 | 33                                  | 4  | 59 | 7  | 20 | 6  | 35 | 11 | 46 | 13 | 51 | 15 | 49 | 17 | 42 | 19 | 28 | 21 | 9         | 4  |
| 27        | 2 | 35                                  | 5  | 4  | 7  | 27 | 9  | 46 | 11 | 59 | 14 | 7  | 16 | 8  | 18 | 3  | 19 | 52 | 21 | 36        | 3  |
| 28        | 2 | 38                                  | 5  | 9  | 7  | 35 | 9  | 56 | 12 | 12 | 14 | 22 | 16 | 26 | 18 | 24 | 20 | 16 | 22 | 2         | 2  |
| 29        | 2 | 40                                  | 5  | 14 | 7  | 42 | 10 | 7  | 12 | 25 | 14 | 38 | 16 | 45 | 18 | 45 | 20 | 40 | 22 | 29        | 1  |
| 30        | 2 | 42                                  | 5  | 19 | 7  | 50 | 10 | 17 | 12 | 38 | 14 | 54 | 17 | 3  | 19 | 62 | 1  | 4  | 22 | 55        | 0  |
| corruptum |   | Subtrahe                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | corruptum |    |
|           |   | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5         | 20 |
|           |   | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |    |



## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| Anom.                               | Distantia vera ☉ à ☊, vel ab eius ☍ |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |  |
|-------------------------------------|-------------------------------------|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|--|
|                                     | 0 10 20 30 40 50 60 70 80 90 100    |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |  |
|                                     | Adde                                |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |  |
| 4                                   | 2                                   | 42 | 5 | 19 | 7  | 50 | 10 | 17 | 12 | 38 | 14 | 54 | 17 | 3  | 19 | 6  | 21 | 4  | 22 | 55 | 30       |  |
| 1                                   | 2                                   | 45 | 5 | 24 | 7  | 57 | 10 | 27 | 12 | 51 | 15 | 10 | 17 | 21 | 19 | 27 | 21 | 27 | 23 | 21 | 29       |  |
| 2                                   | 2                                   | 47 | 5 | 29 | 8  | 5  | 10 | 37 | 13 | 3  | 15 | 25 | 17 | 39 | 19 | 48 | 21 | 50 | 23 | 47 | 28       |  |
| 3                                   | 2                                   | 50 | 5 | 34 | 8  | 12 | 10 | 46 | 13 | 16 | 15 | 40 | 17 | 57 | 20 | 8  | 22 | 13 | 24 | 13 | 27       |  |
| 4                                   | 2                                   | 53 | 5 | 39 | 8  | 20 | 10 | 56 | 13 | 28 | 15 | 55 | 18 | 15 | 20 | 29 | 22 | 36 | 24 | 39 | 26       |  |
| 5                                   | 2                                   | 55 | 5 | 44 | 8  | 27 | 11 | 6  | 13 | 41 | 16 | 9  | 18 | 32 | 20 | 49 | 22 | 59 | 25 | 4  | 25       |  |
| 6                                   | 2                                   | 58 | 5 | 48 | 8  | 34 | 11 | 15 | 13 | 53 | 16 | 24 | 18 | 49 | 21 | 9  | 23 | 22 | 25 | 29 | 24       |  |
| 7                                   | 3                                   | 0  | 5 | 53 | 8  | 41 | 11 | 25 | 14 | 5  | 16 | 39 | 18 | 6  | 21 | 29 | 23 | 45 | 25 | 54 | 23       |  |
| 8                                   | 3                                   | 2  | 5 | 58 | 8  | 48 | 11 | 34 | 14 | 17 | 16 | 53 | 19 | 23 | 21 | 49 | 24 | 7  | 26 | 19 | 22       |  |
| 9                                   | 3                                   | 4  | 6 | 2  | 8  | 55 | 11 | 44 | 14 | 29 | 17 | 8  | 19 | 40 | 22 | 8  | 24 | 29 | 26 | 44 | 21       |  |
| 10                                  | 3                                   | 6  | 6 | 7  | 9  | 2  | 11 | 53 | 14 | 41 | 17 | 22 | 19 | 57 | 22 | 27 | 24 | 51 | 27 | 9  | 20       |  |
| 11                                  | 3                                   | 9  | 6 | 11 | 9  | 9  | 12 | 2  | 14 | 52 | 17 | 36 | 20 | 13 | 22 | 46 | 25 | 13 | 27 | 33 | 19       |  |
| 12                                  | 3                                   | 11 | 6 | 16 | 9  | 16 | 12 | 11 | 15 | 4  | 17 | 50 | 20 | 30 | 23 | 5  | 25 | 34 | 27 | 57 | 18       |  |
| 13                                  | 3                                   | 13 | 6 | 20 | 9  | 22 | 12 | 20 | 15 | 15 | 18 | 4  | 20 | 46 | 23 | 24 | 25 | 55 | 28 | 21 | 17       |  |
| 14                                  | 3                                   | 15 | 6 | 24 | 9  | 29 | 12 | 29 | 15 | 26 | 18 | 17 | 21 | 2  | 23 | 42 | 26 | 16 | 28 | 45 | 16       |  |
| 15                                  | 3                                   | 17 | 6 | 28 | 9  | 35 | 12 | 38 | 15 | 37 | 18 | 30 | 21 | 18 | 24 | 0  | 26 | 37 | 29 | 8  | 15       |  |
| 16                                  | 3                                   | 19 | 6 | 32 | 9  | 42 | 12 | 46 | 15 | 48 | 18 | 43 | 21 | 34 | 24 | 18 | 26 | 57 | 29 | 31 | 14       |  |
| 17                                  | 3                                   | 21 | 6 | 37 | 9  | 48 | 12 | 55 | 15 | 58 | 18 | 56 | 21 | 49 | 24 | 36 | 27 | 17 | 29 | 54 | 13       |  |
| 18                                  | 3                                   | 23 | 6 | 41 | 9  | 54 | 13 | 3  | 16 | 9  | 19 | 9  | 22 | 4  | 24 | 54 | 27 | 37 | 30 | 17 | 12       |  |
| 19                                  | 3                                   | 25 | 6 | 45 | 10 | 0  | 13 | 11 | 16 | 19 | 19 | 21 | 22 | 19 | 25 | 11 | 27 | 57 | 30 | 39 | 11       |  |
| 20                                  | 3                                   | 27 | 6 | 49 | 10 | 6  | 13 | 19 | 16 | 29 | 19 | 34 | 22 | 33 | 25 | 28 | 28 | 17 | 31 | 1  | 10       |  |
| 21                                  | 3                                   | 29 | 6 | 53 | 10 | 12 | 13 | 27 | 16 | 39 | 19 | 46 | 22 | 47 | 25 | 45 | 28 | 36 | 31 | 23 | 9        |  |
| 22                                  | 3                                   | 31 | 6 | 57 | 10 | 18 | 13 | 35 | 16 | 49 | 19 | 58 | 23 | 1  | 26 | 2  | 28 | 55 | 31 | 44 | 8        |  |
| 23                                  | 3                                   | 33 | 7 | 0  | 10 | 23 | 13 | 42 | 16 | 58 | 20 | 10 | 23 | 15 | 26 | 18 | 29 | 14 | 32 | 5  | 7        |  |
| 24                                  | 3                                   | 34 | 7 | 4  | 10 | 29 | 13 | 50 | 17 | 8  | 20 | 21 | 23 | 29 | 26 | 34 | 29 | 33 | 32 | 26 | 6        |  |
| 25                                  | 3                                   | 36 | 7 | 7  | 10 | 34 | 13 | 57 | 17 | 17 | 20 | 32 | 23 | 43 | 26 | 50 | 29 | 51 | 32 | 46 | 5        |  |
| 26                                  | 3                                   | 38 | 7 | 11 | 10 | 39 | 14 | 4  | 17 | 26 | 20 | 43 | 23 | 56 | 27 | 5  | 30 | 9  | 33 | 6  | 4        |  |
| 27                                  | 3                                   | 40 | 7 | 14 | 10 | 44 | 14 | 11 | 17 | 35 | 20 | 54 | 24 | 9  | 27 | 20 | 30 | 26 | 33 | 25 | 3        |  |
| 28                                  | 3                                   | 41 | 7 | 18 | 10 | 49 | 14 | 18 | 17 | 44 | 21 | 5  | 24 | 22 | 27 | 35 | 30 | 43 | 33 | 44 | 2        |  |
| 29                                  | 3                                   | 43 | 7 | 21 | 10 | 54 | 14 | 25 | 17 | 52 | 21 | 15 | 24 | 34 | 27 | 49 | 30 | 59 | 34 | 3  | 1        |  |
| 30                                  | 3                                   | 45 | 7 | 24 | 10 | 59 | 14 | 31 | 18 | 0  | 21 | 25 | 24 | 46 | 28 | 3  | 31 | 15 | 34 | 21 | 7        |  |
| conquata                            | Subtrahe                            |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | conquata |  |
|                                     | 5                                   | 29 | 5 | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 |          |  |
| Distantia vera ☉ à ☊, vel ab eius ☍ |                                     |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |  |



# Ac Tab. Secundorum Mobilium.

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Composita & absoluta Luna.

| 0  | 9  | 0  | 10 | Anom.    |
|----|----|----|----|----------|
| 1  | "  | "  | "  | 30       |
| 21 | 4  | 22 | 55 | 29       |
| 21 | 27 | 23 | 21 | 28       |
| 21 | 50 | 23 | 47 | 27       |
| 22 | 13 | 24 | 13 | 26       |
| 22 | 36 | 24 | 39 | 25       |
| 22 | 59 | 25 | 4  | 24       |
| 23 | 22 | 25 | 29 | 23       |
| 23 | 45 | 25 | 54 | 22       |
| 24 | 7  | 26 | 19 | 21       |
| 24 | 29 | 26 | 44 | 20       |
| 24 | 51 | 27 | 9  | 19       |
| 25 | 13 | 27 | 33 | 18       |
| 25 | 34 | 27 | 57 | 17       |
| 25 | 55 | 28 | 21 | 16       |
| 26 | 16 | 28 | 45 | 15       |
| 26 | 37 | 29 | 8  | 14       |
| 26 | 57 | 29 | 31 | 13       |
| 27 | 17 | 29 | 54 | 12       |
| 27 | 37 | 30 | 17 | 11       |
| 27 | 57 | 30 | 39 | 10       |
| 28 | 17 | 31 | 1  | 9        |
| 28 | 36 | 31 | 23 | 8        |
| 28 | 55 | 31 | 44 | 7        |
| 29 | 14 | 32 | 5  | 6        |
| 29 | 33 | 32 | 26 | 5        |
| 29 | 51 | 32 | 46 | 4        |
| 30 | 9  | 33 | 6  | 3        |
| 30 | 26 | 33 | 25 | 2        |
| 30 | 43 | 33 | 44 | 1        |
| 30 | 59 | 34 | 3  | 7        |
| 31 | 15 | 34 | 21 | conquata |
| 5  | 21 | 5  | 20 |          |

| Anom.    |   | Distantia vera ☉ à ☽, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |    |   |
|----------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|---|
|          |   | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 | 20 | 30 | 40 | 50 | 60 |          |    |   |
|          |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |   |
|          |   | 1                                   | "  | 1  | "  | 1  | "  | 1  | "  | 1  | "  | 1  | "  | 1  | "  | 1  | "  |          |    |   |
| 5        | 1 | 3                                   | 45 | 7  | 24 | 10 | 59 | 14 | 31 | 18 | 0  | 21 | 25 | 24 | 46 | 28 | 3  | 31       | 15 |   |
| 1        | 3 | 46                                  | 7  | 27 | 11 | 4  | 14 | 37 | 18 | 8  | 21 | 35 | 24 | 58 | 28 | 17 | 31 | 31       | 34 |   |
| 2        | 3 | 48                                  | 7  | 30 | 11 | 8  | 14 | 43 | 18 | 16 | 21 | 45 | 25 | 10 | 28 | 31 | 31 | 46       | 34 |   |
| 3        | 3 | 49                                  | 7  | 33 | 11 | 13 | 14 | 49 | 18 | 23 | 21 | 54 | 25 | 21 | 28 | 44 | 32 | 1        | 35 |   |
| 4        | 3 | 50                                  | 7  | 35 | 11 | 17 | 14 | 55 | 18 | 31 | 22 | 3  | 25 | 32 | 28 | 57 | 32 | 16       | 35 |   |
| 5        | 3 | 51                                  | 7  | 38 | 11 | 21 | 15 | 1  | 18 | 38 | 22 | 12 | 25 | 43 | 29 | 10 | 32 | 30       | 35 |   |
| 6        | 3 | 52                                  | 7  | 40 | 11 | 25 | 15 | 6  | 18 | 45 | 22 | 21 | 25 | 53 | 29 | 22 | 32 | 44       | 36 |   |
| 7        | 3 | 54                                  | 7  | 43 | 11 | 29 | 15 | 12 | 18 | 52 | 22 | 29 | 26 | 3  | 29 | 34 | 32 | 58       | 36 |   |
| 8        | 3 | 55                                  | 7  | 45 | 11 | 33 | 15 | 17 | 18 | 59 | 22 | 37 | 26 | 13 | 29 | 45 | 33 | 11       | 36 |   |
| 9        | 3 | 56                                  | 7  | 48 | 11 | 36 | 15 | 22 | 19 | 5  | 22 | 45 | 26 | 22 | 29 | 56 | 33 | 24       | 36 |   |
| 10       | 3 | 57                                  | 7  | 50 | 11 | 40 | 15 | 27 | 19 | 11 | 22 | 52 | 26 | 31 | 30 | 6  | 33 | 36       | 37 |   |
| 11       | 3 | 58                                  | 7  | 52 | 11 | 43 | 15 | 32 | 19 | 17 | 22 | 59 | 26 | 40 | 30 | 16 | 33 | 48       | 37 |   |
| 12       | 3 | 59                                  | 7  | 54 | 11 | 46 | 15 | 36 | 19 | 23 | 23 | 6  | 26 | 48 | 30 | 26 | 34 | 0        | 37 |   |
| 13       | 4 | 0                                   | 7  | 56 | 11 | 49 | 15 | 40 | 19 | 29 | 23 | 13 | 26 | 56 | 30 | 36 | 34 | 11       | 37 |   |
| 14       | 4 | 0                                   | 7  | 58 | 11 | 52 | 15 | 44 | 19 | 34 | 23 | 20 | 27 | 4  | 30 | 46 | 34 | 22       | 37 |   |
| 15       | 4 | 1                                   | 8  | 0  | 11 | 55 | 15 | 48 | 19 | 39 | 23 | 27 | 27 | 12 | 30 | 55 | 34 | 33       | 38 |   |
| 16       | 4 | 2                                   | 8  | 1  | 11 | 58 | 15 | 52 | 19 | 44 | 23 | 33 | 27 | 19 | 31 | 4  | 34 | 43       | 38 |   |
| 17       | 4 | 3                                   | 8  | 3  | 12 | 0  | 15 | 55 | 19 | 49 | 23 | 39 | 27 | 26 | 31 | 12 | 34 | 53       | 38 |   |
| 18       | 4 | 3                                   | 8  | 4  | 12 | 3  | 15 | 59 | 19 | 53 | 23 | 45 | 27 | 33 | 31 | 20 | 35 | 2        | 38 |   |
| 19       | 4 | 4                                   | 8  | 6  | 12 | 5  | 16 | 2  | 19 | 57 | 23 | 50 | 27 | 40 | 31 | 28 | 35 | 11       | 38 |   |
| 20       | 4 | 5                                   | 8  | 7  | 12 | 7  | 16 | 5  | 20 | 1  | 23 | 55 | 27 | 46 | 31 | 35 | 35 | 20       | 39 |   |
| 21       | 4 | 5                                   | 8  | 8  | 12 | 9  | 16 | 8  | 20 | 5  | 24 | 0  | 27 | 52 | 31 | 42 | 35 | 28       | 39 |   |
| 22       | 4 | 6                                   | 8  | 9  | 12 | 11 | 16 | 11 | 20 | 8  | 24 | 4  | 27 | 57 | 31 | 48 | 35 | 36       | 39 |   |
| 23       | 4 | 6                                   | 8  | 10 | 12 | 13 | 16 | 13 | 20 | 11 | 24 | 8  | 28 | 2  | 31 | 54 | 35 | 43       | 39 |   |
| 24       | 4 | 6                                   | 8  | 11 | 12 | 14 | 16 | 15 | 20 | 14 | 24 | 12 | 28 | 7  | 32 | 0  | 35 | 50       | 39 |   |
| 25       | 4 | 7                                   | 8  | 12 | 12 | 15 | 16 | 17 | 20 | 17 | 24 | 15 | 28 | 11 | 32 | 6  | 35 | 57       | 39 |   |
| 26       | 4 | 7                                   | 8  | 12 | 12 | 16 | 16 | 18 | 20 | 19 | 24 | 18 | 28 | 15 | 32 | 11 | 36 | 3        | 39 |   |
| 27       | 4 | 7                                   | 8  | 12 | 12 | 17 | 16 | 19 | 20 | 21 | 24 | 21 | 28 | 19 | 32 | 16 | 36 | 9        | 39 |   |
| 28       | 4 | 7                                   | 8  | 13 | 12 | 17 | 16 | 20 | 20 | 23 | 24 | 24 | 28 | 23 | 32 | 20 | 36 | 14       | 40 |   |
| 29       | 4 | 7                                   | 8  | 13 | 12 | 18 | 16 | 21 | 20 | 25 | 24 | 26 | 28 | 26 | 32 | 24 | 36 | 18       | 40 |   |
| 30       | 4 | 7                                   | 8  | 13 | 12 | 18 | 16 | 22 | 20 | 26 | 24 | 28 | 28 | 29 | 32 | 27 | 36 | 22       | 40 |   |
| conquata |   | Subtrahere                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | conquata |    |   |
|          |   | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5  | 23 | 5  | 22 | 5        | 21 | 5 |
|          |   | Distantia vera ☉ à ☽, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |   |



| Anom.                               | Distantia vera ☉ à ☊, vel ab eius ☍ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |
|-------------------------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
|                                     | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 |          |
|                                     | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| 0                                   | 4                                   | 7  | 8  | 13 | 12 | 18 | 16 | 22 | 20 | 26 | 24 | 28 | 28 | 29 | 32 | 27 | 36 | 22 | 40 | 13 | 30       |
| 1                                   | 4                                   | 7  | 8  | 13 | 12 | 18 | 16 | 22 | 20 | 27 | 24 | 29 | 28 | 31 | 32 | 30 | 36 | 25 | 40 | 17 | 29       |
| 2                                   | 4                                   | 7  | 8  | 13 | 12 | 19 | 16 | 23 | 20 | 27 | 24 | 30 | 28 | 33 | 32 | 32 | 36 | 28 | 40 | 21 | 28       |
| 3                                   | 4                                   | 6  | 8  | 13 | 12 | 19 | 16 | 23 | 20 | 28 | 24 | 31 | 28 | 34 | 32 | 33 | 36 | 30 | 40 | 24 | 27       |
| 4                                   | 4                                   | 6  | 8  | 12 | 12 | 18 | 16 | 24 | 20 | 28 | 24 | 32 | 28 | 34 | 32 | 34 | 36 | 32 | 40 | 27 | 26       |
| 5                                   | 4                                   | 6  | 8  | 12 | 12 | 18 | 16 | 24 | 20 | 28 | 24 | 32 | 28 | 34 | 32 | 35 | 36 | 34 | 40 | 30 | 25       |
| 6                                   | 4                                   | 6  | 8  | 12 | 12 | 17 | 16 | 24 | 20 | 28 | 24 | 32 | 28 | 34 | 32 | 35 | 36 | 35 | 40 | 32 | 24       |
| 7                                   | 4                                   | 5  | 8  | 12 | 12 | 17 | 16 | 23 | 20 | 27 | 24 | 31 | 28 | 33 | 32 | 35 | 36 | 35 | 40 | 33 | 23       |
| 8                                   | 4                                   | 5  | 8  | 11 | 12 | 16 | 16 | 22 | 20 | 26 | 24 | 30 | 28 | 33 | 32 | 35 | 36 | 35 | 40 | 34 | 22       |
| 9                                   | 4                                   | 5  | 8  | 11 | 12 | 15 | 16 | 21 | 20 | 25 | 24 | 29 | 28 | 32 | 32 | 34 | 36 | 34 | 40 | 34 | 21       |
| 10                                  | 4                                   | 5  | 8  | 10 | 12 | 14 | 16 | 19 | 20 | 24 | 24 | 28 | 28 | 31 | 32 | 33 | 36 | 33 | 40 | 33 | 20       |
| 11                                  | 4                                   | 4  | 8  | 9  | 12 | 13 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 32 | 36 | 32 | 40 | 32 | 19       |
| 12                                  | 4                                   | 4  | 8  | 8  | 12 | 12 | 16 | 16 | 20 | 20 | 24 | 24 | 28 | 29 | 32 | 31 | 36 | 31 | 40 | 31 | 18       |
| 13                                  | 4                                   | 3  | 8  | 6  | 12 | 10 | 16 | 14 | 20 | 18 | 24 | 22 | 28 | 27 | 32 | 29 | 36 | 29 | 40 | 29 | 17       |
| 14                                  | 4                                   | 2  | 8  | 5  | 12 | 8  | 16 | 12 | 20 | 16 | 24 | 20 | 28 | 25 | 32 | 27 | 36 | 27 | 40 | 27 | 16       |
| 15                                  | 4                                   | 2  | 8  | 4  | 12 | 6  | 16 | 10 | 20 | 14 | 24 | 18 | 28 | 22 | 32 | 24 | 36 | 24 | 40 | 24 | 15       |
| 16                                  | 4                                   | 1  | 8  | 2  | 12 | 4  | 16 | 7  | 20 | 11 | 24 | 15 | 28 | 19 | 32 | 21 | 36 | 21 | 40 | 21 | 14       |
| 17                                  | 4                                   | 0  | 8  | 1  | 12 | 1  | 16 | 4  | 20 | 8  | 24 | 12 | 28 | 15 | 32 | 17 | 36 | 17 | 40 | 17 | 13       |
| 18                                  | 3                                   | 59 | 7  | 59 | 11 | 59 | 16 | 1  | 20 | 5  | 24 | 9  | 28 | 11 | 32 | 13 | 36 | 13 | 40 | 13 | 12       |
| 19                                  | 3                                   | 58 | 7  | 57 | 11 | 56 | 15 | 58 | 20 | 2  | 24 | 5  | 28 | 7  | 32 | 9  | 36 | 9  | 40 | 9  | 11       |
| 20                                  | 3                                   | 57 | 7  | 55 | 11 | 54 | 15 | 55 | 19 | 58 | 24 | 1  | 28 | 3  | 32 | 4  | 36 | 4  | 40 | 4  | 10       |
| 21                                  | 3                                   | 56 | 7  | 53 | 11 | 51 | 15 | 52 | 19 | 54 | 23 | 57 | 27 | 58 | 31 | 59 | 35 | 59 | 39 | 59 | 9        |
| 22                                  | 3                                   | 55 | 7  | 51 | 11 | 48 | 15 | 49 | 19 | 50 | 23 | 52 | 27 | 53 | 31 | 54 | 35 | 53 | 39 | 53 | 8        |
| 23                                  | 3                                   | 53 | 7  | 49 | 11 | 45 | 15 | 45 | 19 | 46 | 23 | 47 | 27 | 47 | 31 | 48 | 35 | 47 | 39 | 47 | 7        |
| 24                                  | 3                                   | 52 | 7  | 46 | 11 | 42 | 15 | 41 | 19 | 41 | 23 | 42 | 27 | 41 | 31 | 42 | 35 | 41 | 39 | 40 | 6        |
| 25                                  | 3                                   | 51 | 7  | 44 | 11 | 39 | 15 | 37 | 19 | 36 | 23 | 36 | 27 | 35 | 31 | 35 | 35 | 34 | 39 | 33 | 5        |
| 26                                  | 3                                   | 50 | 7  | 41 | 11 | 35 | 15 | 33 | 19 | 31 | 23 | 30 | 27 | 29 | 31 | 28 | 35 | 27 | 39 | 25 | 4        |
| 27                                  | 3                                   | 48 | 7  | 38 | 11 | 32 | 15 | 28 | 19 | 25 | 23 | 24 | 27 | 22 | 31 | 21 | 35 | 19 | 39 | 16 | 3        |
| 28                                  | 3                                   | 47 | 7  | 36 | 11 | 28 | 15 | 24 | 19 | 20 | 23 | 18 | 27 | 15 | 31 | 13 | 35 | 10 | 39 | 7  | 2        |
| 29                                  | 3                                   | 46 | 7  | 33 | 11 | 25 | 15 | 19 | 19 | 14 | 23 | 11 | 27 | 8  | 31 | 5  | 35 | 1  | 38 | 57 | 1        |
| 30                                  | 3                                   | 44 | 7  | 31 | 11 | 21 | 15 | 14 | 19 | 8  | 23 | 4  | 27 | 0  | 30 | 56 | 34 | 51 | 38 | 47 | 5        |
| corquata                            | Subtrahe                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | corquata |
|                                     | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 |          |
| Distantia vera ☉ à ☊, vel ab eius ☍ |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |



Ac Tab. Secundorum Mobilium.

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Compositæ & absolutæ Lunæ.

|    |    | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    | Anom. |       |          |
|----|----|-------------------------------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|-------|-------|----------|
|    |    | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |    |    |    |    |    |    |    |    |    |       | Anom. |          |
|    |    | Adde                                |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |       |       |          |
|    |    | I                                   | II | I  | II | I  | II | I  | II | I  | II | I   | II | I  | II | I  | II | I  | II | I  | II | I     | II    | Anom.    |
|    |    | 7                                   | 3  | 44 | 7  | 31 | 11 | 21 | 15 | 14 | 19 | 8   | 23 | 4  | 27 | 0  | 30 | 56 | 34 | 51 | 38 | 47    | 30    |          |
| 40 | 13 | 30                                  | 3  | 43 | 7  | 28 | 11 | 17 | 15 | 9  | 19 | 2   | 22 | 57 | 26 | 52 | 30 | 47 | 34 | 41 | 38 | 37    | 29    |          |
| 40 | 17 | 29                                  | 2  | 3  | 41 | 7  | 26 | 11 | 13 | 15 | 4  | 18  | 55 | 22 | 49 | 26 | 43 | 30 | 38 | 34 | 31 | 38    | 26    | 28       |
| 40 | 21 | 28                                  | 3  | 3  | 40 | 7  | 23 | 11 | 9  | 14 | 58 | 18  | 48 | 22 | 41 | 26 | 34 | 30 | 28 | 34 | 21 | 38    | 15    | 27       |
| 40 | 24 | 27                                  | 4  | 3  | 38 | 7  | 20 | 11 | 4  | 14 | 52 | 18  | 41 | 22 | 33 | 26 | 25 | 30 | 18 | 34 | 10 | 38    | 3     | 26       |
| 40 | 27 | 26                                  | 5  | 3  | 37 | 7  | 17 | 11 | 0  | 14 | 46 | 18  | 34 | 22 | 24 | 26 | 15 | 30 | 7  | 33 | 59 | 37    | 51    | 25       |
| 40 | 30 | 25                                  | 6  | 3  | 35 | 7  | 14 | 10 | 55 | 14 | 40 | 18  | 27 | 22 | 15 | 26 | 5  | 29 | 56 | 33 | 47 | 37    | 38    | 24       |
| 40 | 32 | 24                                  | 7  | 3  | 34 | 7  | 11 | 10 | 51 | 14 | 34 | 18  | 19 | 22 | 6  | 25 | 55 | 29 | 45 | 33 | 35 | 37    | 25    | 23       |
| 40 | 33 | 23                                  | 8  | 3  | 32 | 7  | 8  | 10 | 46 | 14 | 27 | 18  | 11 | 21 | 57 | 25 | 45 | 29 | 34 | 33 | 22 | 37    | 12    | 22       |
| 40 | 34 | 22                                  | 9  | 3  | 30 | 7  | 4  | 10 | 41 | 14 | 21 | 18  | 3  | 21 | 48 | 25 | 34 | 29 | 22 | 33 | 9  | 36    | 58    | 21       |
| 40 | 34 | 21                                  | 10 | 3  | 29 | 7  | 1  | 10 | 36 | 14 | 14 | 17  | 55 | 21 | 38 | 25 | 23 | 29 | 10 | 32 | 56 | 36    | 44    | 20       |
| 40 | 33 | 20                                  | 11 | 3  | 27 | 6  | 57 | 10 | 31 | 14 | 7  | 17  | 47 | 21 | 28 | 25 | 12 | 28 | 58 | 32 | 42 | 36    | 29    | 19       |
| 40 | 32 | 19                                  | 12 | 3  | 25 | 5  | 54 | 10 | 26 | 14 | 0  | 17  | 38 | 21 | 18 | 25 | 1  | 28 | 45 | 32 | 28 | 36    | 14    | 18       |
| 40 | 31 | 18                                  | 13 | 3  | 23 | 5  | 50 | 10 | 20 | 13 | 53 | 17  | 29 | 21 | 8  | 24 | 49 | 28 | 32 | 32 | 14 | 35    | 58    | 17       |
| 40 | 29 | 17                                  | 14 | 3  | 21 | 6  | 46 | 10 | 15 | 13 | 46 | 17  | 20 | 20 | 57 | 24 | 37 | 28 | 18 | 31 | 59 | 35    | 42    | 16       |
| 40 | 27 | 16                                  | 15 | 3  | 19 | 5  | 42 | 10 | 9  | 13 | 38 | 17  | 11 | 20 | 46 | 24 | 24 | 28 | 4  | 31 | 44 | 35    | 26    | 15       |
| 40 | 24 | 15                                  | 16 | 3  | 17 | 6  | 38 | 10 | 3  | 13 | 31 | 17  | 2  | 20 | 35 | 24 | 12 | 27 | 50 | 31 | 29 | 35    | 9     | 14       |
| 40 | 21 | 14                                  | 17 | 3  | 15 | 6  | 34 | 9  | 57 | 13 | 24 | 16  | 52 | 20 | 24 | 23 | 59 | 27 | 36 | 31 | 13 | 34    | 52    | 13       |
| 40 | 17 | 13                                  | 18 | 3  | 13 | 6  | 30 | 9  | 51 | 13 | 16 | 16  | 43 | 20 | 13 | 23 | 46 | 27 | 21 | 30 | 57 | 34    | 35    | 12       |
| 40 | 13 | 12                                  | 19 | 3  | 11 | 6  | 26 | 9  | 45 | 13 | 8  | 16  | 33 | 20 | 1  | 23 | 33 | 27 | 6  | 30 | 41 | 34    | 17    | 11       |
| 40 | 9  | 11                                  | 20 | 3  | 9  | 6  | 22 | 9  | 39 | 13 | 0  | 16  | 23 | 19 | 50 | 23 | 19 | 26 | 51 | 30 | 24 | 33    | 59    | 10       |
| 40 | 4  | 10                                  | 21 | 3  | 7  | 6  | 17 | 9  | 32 | 12 | 52 | 16  | 13 | 19 | 38 | 23 | 5  | 26 | 36 | 30 | 7  | 33    | 40    | 9        |
| 39 | 59 | 9                                   | 22 | 3  | 4  | 6  | 13 | 9  | 26 | 12 | 43 | 16  | 3  | 19 | 26 | 22 | 51 | 26 | 20 | 29 | 50 | 33    | 21    | 8        |
| 39 | 53 | 8                                   | 23 | 3  | 2  | 6  | 8  | 9  | 19 | 12 | 35 | 15  | 53 | 19 | 14 | 22 | 37 | 26 | 4  | 29 | 32 | 33    | 2     | 7        |
| 39 | 47 | 7                                   | 24 | 3  | 0  | 6  | 4  | 9  | 12 | 12 | 26 | 15  | 42 | 19 | 1  | 22 | 22 | 25 | 48 | 29 | 14 | 32    | 43    | 6        |
| 39 | 40 | 6                                   | 25 | 2  | 57 | 5  | 59 | 9  | 6  | 12 | 17 | 15  | 31 | 18 | 48 | 22 | 8  | 25 | 31 | 28 | 56 | 32    | 23    | 5        |
| 39 | 33 | 5                                   | 26 | 2  | 55 | 5  | 55 | 8  | 59 | 12 | 8  | 15  | 20 | 18 | 35 | 21 | 53 | 25 | 14 | 28 | 37 | 32    | 3     | 4        |
| 39 | 25 | 4                                   | 27 | 2  | 53 | 5  | 50 | 8  | 52 | 11 | 59 | 15  | 9  | 18 | 22 | 21 | 38 | 24 | 57 | 28 | 18 | 31    | 42    | 3        |
| 39 | 16 | 3                                   | 28 | 2  | 50 | 5  | 46 | 8  | 46 | 11 | 49 | 14  | 57 | 18 | 9  | 21 | 23 | 24 | 40 | 27 | 59 | 31    | 21    | 2        |
| 39 | 7  | 2                                   | 29 | 2  | 48 | 5  | 41 | 8  | 39 | 11 | 40 | 14  | 46 | 17 | 56 | 21 | 8  | 24 | 22 | 27 | 40 | 31    | 0     | 1        |
| 38 | 57 | 1                                   | 30 | 2  | 46 | 5  | 37 | 8  | 32 | 11 | 31 | 14  | 35 | 17 | 42 | 20 | 52 | 24 | 5  | 27 | 20 | 30    | 39    | 4        |
|    |    | Subtrahe                            |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |       |       | Anom.    |
|    |    | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5   | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 |       |       |          |
|    |    | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |       |       | conquata |

## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| - Distantia vera ☉ à ☿, vel ab eius ☉ |   |      |    |    |    |    |    |    |    |    |    |     |       |    |    |    |    |    |    |    |    |          |
|---------------------------------------|---|------|----|----|----|----|----|----|----|----|----|-----|-------|----|----|----|----|----|----|----|----|----------|
| Anom.                                 |   | 0    | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | Anom. |    |    |    |    |    |    |    |    |          |
|                                       |   | Adde |    |    |    |    |    |    |    |    |    |     |       |    |    |    |    |    |    |    |    |          |
|                                       |   | 1    | 11 | 1  | 11 | 1  | 11 | 1  | 11 | 1  | 11 | 1   | 11    | 1  | 11 | 1  | 11 | 1  | 11 | 1  | 11 |          |
| 0                                     | 2 | 46   | 5  | 37 | 8  | 32 | 11 | 31 | 14 | 35 | 17 | 42  | 20    | 52 | 24 | 5  | 27 | 20 | 30 | 39 | 30 |          |
| 1                                     | 2 | 44   | 5  | 32 | 8  | 25 | 11 | 21 | 14 | 24 | 17 | 28  | 20    | 36 | 23 | 47 | 27 | 0  | 30 | 17 | 29 |          |
| 2                                     | 2 | 41   | 5  | 27 | 8  | 18 | 11 | 12 | 14 | 12 | 17 | 14  | 20    | 20 | 23 | 29 | 26 | 40 | 29 | 55 | 28 |          |
| 3                                     | 2 | 39   | 5  | 23 | 8  | 11 | 11 | 2  | 14 | 0  | 17 | 0   | 20    | 4  | 23 | 11 | 26 | 20 | 29 | 33 | 27 |          |
| 4                                     | 2 | 36   | 5  | 18 | 8  | 3  | 10 | 53 | 13 | 48 | 16 | 46  | 19    | 47 | 22 | 52 | 26 | 0  | 29 | 11 | 26 |          |
| 5                                     | 2 | 34   | 5  | 13 | 7  | 56 | 10 | 43 | 13 | 36 | 16 | 31  | 19    | 30 | 22 | 33 | 25 | 39 | 28 | 48 | 25 |          |
| 6                                     | 2 | 31   | 5  | 8  | 7  | 48 | 10 | 33 | 13 | 24 | 16 | 17  | 19    | 13 | 22 | 14 | 25 | 18 | 28 | 25 | 24 |          |
| 7                                     | 2 | 29   | 5  | 3  | 7  | 41 | 10 | 23 | 13 | 12 | 16 | 2   | 18    | 57 | 21 | 55 | 24 | 57 | 28 | 2  | 23 |          |
| 8                                     | 2 | 26   | 4  | 58 | 7  | 33 | 10 | 13 | 12 | 59 | 15 | 48  | 18    | 40 | 21 | 36 | 24 | 36 | 27 | 29 | 22 |          |
| 9                                     | 2 | 24   | 4  | 53 | 7  | 25 | 10 | 3  | 12 | 47 | 15 | 33  | 18    | 23 | 21 | 17 | 24 | 14 | 27 | 15 | 21 |          |
| 10                                    | 2 | 21   | 4  | 47 | 7  | 18 | 9  | 53 | 12 | 34 | 15 | 19  | 18    | 6  | 20 | 57 | 23 | 52 | 26 | 51 | 20 |          |
| 11                                    | 2 | 19   | 4  | 42 | 7  | 10 | 9  | 43 | 12 | 21 | 15 | 4   | 17    | 49 | 20 | 37 | 23 | 30 | 26 | 27 | 19 |          |
| 12                                    | 2 | 16   | 4  | 37 | 7  | 3  | 9  | 33 | 12 | 8  | 14 | 49  | 17    | 31 | 20 | 17 | 23 | 8  | 26 | 2  | 18 |          |
| 13                                    | 2 | 14   | 4  | 32 | 6  | 55 | 9  | 23 | 11 | 56 | 14 | 34  | 17    | 14 | 19 | 57 | 22 | 46 | 25 | 37 | 17 |          |
| 14                                    | 2 | 11   | 4  | 27 | 6  | 47 | 9  | 12 | 11 | 43 | 14 | 19  | 16    | 56 | 19 | 37 | 22 | 23 | 25 | 12 | 16 |          |
| 15                                    | 2 | 8    | 4  | 21 | 6  | 39 | 9  | 2  | 11 | 30 | 14 | 3   | 16    | 38 | 19 | 17 | 22 | 0  | 24 | 47 | 15 |          |
| 16                                    | 2 | 6    | 4  | 16 | 6  | 31 | 8  | 51 | 11 | 17 | 13 | 47  | 16    | 20 | 18 | 56 | 21 | 37 | 24 | 22 | 14 |          |
| 17                                    | 2 | 3    | 4  | 11 | 9  | 23 | 8  | 41 | 11 | 4  | 13 | 31  | 16    | 2  | 18 | 35 | 21 | 14 | 23 | 56 | 13 |          |
| 18                                    | 2 | 0    | 4  | 5  | 6  | 15 | 8  | 30 | 10 | 51 | 13 | 15  | 15    | 43 | 18 | 15 | 20 | 51 | 23 | 31 | 12 |          |
| 19                                    | 1 | 58   | 4  | 0  | 6  | 7  | 8  | 19 | 10 | 37 | 12 | 59  | 15    | 25 | 17 | 54 | 20 | 28 | 23 | 5  | 11 |          |
| 20                                    | 1 | 55   | 3  | 54 | 5  | 59 | 8  | 9  | 10 | 24 | 12 | 43  | 15    | 6  | 17 | 33 | 20 | 4  | 22 | 39 | 10 |          |
| 21                                    | 1 | 52   | 3  | 49 | 5  | 51 | 7  | 58 | 10 | 10 | 12 | 27  | 14    | 48 | 17 | 12 | 19 | 41 | 22 | 13 | 9  |          |
| 22                                    | 1 | 49   | 3  | 43 | 5  | 43 | 7  | 48 | 9  | 57 | 12 | 12  | 14    | 30 | 16 | 51 | 19 | 17 | 21 | 47 | 8  |          |
| 23                                    | 1 | 47   | 3  | 38 | 5  | 35 | 7  | 37 | 9  | 44 | 11 | 56  | 14    | 11 | 16 | 31 | 18 | 54 | 21 | 21 | 7  |          |
| 24                                    | 1 | 44   | 3  | 33 | 5  | 27 | 7  | 26 | 9  | 30 | 11 | 40  | 13    | 53 | 16 | 10 | 18 | 30 | 20 | 55 | 6  |          |
| 25                                    | 1 | 41   | 3  | 27 | 5  | 19 | 7  | 16 | 9  | 17 | 11 | 24  | 13    | 35 | 15 | 49 | 18 | 6  | 20 | 29 | 5  |          |
| 26                                    | 1 | 38   | 3  | 22 | 5  | 11 | 7  | 5  | 9  | 3  | 11 | 8   | 13    | 16 | 15 | 28 | 17 | 42 | 20 | 3  | 4  |          |
| 27                                    | 1 | 35   | 3  | 16 | 5  | 3  | 6  | 54 | 8  | 50 | 10 | 52  | 12    | 57 | 15 | 7  | 17 | 19 | 19 | 37 | 3  |          |
| 28                                    | 1 | 33   | 3  | 11 | 4  | 54 | 6  | 43 | 8  | 37 | 10 | 36  | 12    | 38 | 14 | 45 | 16 | 55 | 19 | 10 | 2  |          |
| 29                                    | 1 | 30   | 3  | 5  | 4  | 46 | 6  | 32 | 8  | 23 | 10 | 20  | 12    | 19 | 14 | 24 | 16 | 31 | 18 | 44 | 1  |          |
| 30                                    | 1 | 27   | 3  | 0  | 4  | 38 | 6  | 21 | 8  | 10 | 10 | 3   | 12    | 0  | 14 | 2  | 16 | 8  | 18 | 17 | 3  |          |
| Subtrahere                            |   |      |    |    |    |    |    |    |    |    |    |     |       |    |    |    |    |    |    |    |    |          |
| corrupta                              |   | 5    | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5   | 24    | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 | corrupta |
| Distantia vera ☉ à ☿, vel ab eius ☉   |   |      |    |    |    |    |    |    |    |    |    |     |       |    |    |    |    |    |    |    |    |          |



# Ac Tab. Secundorum Mobilium.

113 366

Composita & absoluta Luna.

| 90   | 10    | Anom.    |
|------|-------|----------|
| "    | "     | "        |
| 7 20 | 30 39 | 30       |
| 7 0  | 30 17 | 29       |
| 6 40 | 29 55 | 28       |
| 6 20 | 29 33 | 27       |
| 6 0  | 29 11 | 26       |
| 5 39 | 28 48 | 25       |
| 5 18 | 28 25 | 24       |
| 4 57 | 28 2  | 23       |
| 4 36 | 27 39 | 22       |
| 4 14 | 27 15 | 21       |
| 3 52 | 26 51 | 20       |
| 3 30 | 26 27 | 19       |
| 3 8  | 26 2  | 18       |
| 2 46 | 25 37 | 17       |
| 2 23 | 25 12 | 16       |
| 2 0  | 24 47 | 15       |
| 1 37 | 24 22 | 14       |
| 1 14 | 23 56 | 13       |
| 0 51 | 23 31 | 12       |
| 0 28 | 23 5  | 11       |
| 0 4  | 22 39 | 10       |
| 0 41 | 22 13 | 9        |
| 0 17 | 21 47 | 8        |
| 0 54 | 21 21 | 7        |
| 0 30 | 20 55 | 6        |
| 0 6  | 20 29 | 5        |
| 0 42 | 20 3  | 4        |
| 0 19 | 19 37 | 3        |
| 0 55 | 19 10 | 2        |
| 0 31 | 18 44 | 1        |
| 0 8  | 18 17 | 0        |
| 215  | 20    | corquata |

| Anom.    |    | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |          |    |     |       | Anom. |
|----------|----|-------------------------------------|----|----|----|----|----|----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----------|----|-----|-------|-------|
|          |    | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |    |    |    |    |    |    |    |    |    |          |    |     |       |       |
|          |    | Adde                                |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |          |    |     |       |       |
| Anom.    |    | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 |     |       |       |
|          |    | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 |     |       |       |
| 0        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 301 |       |       |
| 1        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 29  |       |       |
| 2        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 28  |       |       |
| 3        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 27  |       |       |
| 4        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 26  |       |       |
| 5        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 25  |       |       |
| 6        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 24  |       |       |
| 7        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 23  |       |       |
| 8        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 22  |       |       |
| 9        | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 21  |       |       |
| 10       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 20  |       |       |
| 11       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 19  |       |       |
| 12       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 18  |       |       |
| 13       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 17  |       |       |
| 14       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 16  |       |       |
| 15       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 15  |       |       |
| 16       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 14  |       |       |
| 17       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 13  |       |       |
| 18       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 12  |       |       |
| 19       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 11  |       |       |
| 20       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 10  |       |       |
| 21       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 9   |       |       |
| 22       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 8   |       |       |
| 23       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 7   |       |       |
| 24       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 6   |       |       |
| 25       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 5   |       |       |
| 26       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 4   |       |       |
| 27       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 3   |       |       |
| 28       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 2   |       |       |
| 29       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 1   |       |       |
| 30       | 1  | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21       | 22 | 0   |       |       |
| corquata |    | Subtrahe                            |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |          |    |     | Anom. |       |
|          |    | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5   | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 |          |    |     |       |       |
|          |    | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |     |    |    |    |    |    |    |    |    |    |          |    |     |       |       |
| 5        | 29 | 5                                   | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5   | 23 | 5  | 22 | 5  | 21 | 5  | 20 |    |    | corquata |    |     |       |       |

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| Anom. |  | Distantia vera ☉ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |    |    |    |
|-------|--|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|----|----|----|
|       |  | 0                                   | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 |    |    |    |    |    |    |    |    |    |          |    |    |    |
|       |  | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |    |    |    |
| 10    |  | 0                                   | 9  | 0  | 24 | 0  | 44 | 1  | 9  | 1  | 39 | 2  | 12 | 2  | 49 | 3  | 32 | 4  | 19 | 5  | 12 | 30       |    |    |    |
| 11    |  | 0                                   | 7  | 0  | 19 | 0  | 37 | 0  | 59 | 1  | 27 | 1  | 58 | 2  | 32 | 3  | 12 | 3  | 57 | 4  | 47 | 29       |    |    |    |
| 12    |  | 0                                   | 4  | 0  | 14 | 0  | 30 | 0  | 50 | 1  | 15 | 1  | 43 | 2  | 15 | 2  | 53 | 3  | 35 | 4  | 22 | 28       |    |    |    |
| 13    |  | 0                                   | 2  | 0  | 10 | 0  | 23 | 0  | 40 | 1  | 3  | 1  | 29 | 1  | 59 | 2  | 34 | 3  | 13 | 3  | 58 | 27       |    |    |    |
| 14    |  | 0                                   | S  | 1  | 0  | 5  | 0  | 16 | 0  | 31 | 0  | 52 | 1  | 15 | 1  | 42 | 2  | 15 | 2  | 52 | 3  | 34       | 26 |    |    |
| 15    |  | 0                                   | S  | 1  | 0  | S  | 1  | 0  | 9  | 0  | 22 | 0  | 40 | 1  | 1  | 1  | 26 | 1  | 56 | 2  | 31 | 3        | 25 |    |    |
| 16    |  | 0                                   | 4  | 0  | 3  | 0  | S  | 3  | 0  | 13 | 0  | 29 | 0  | 47 | 1  | 10 | 1  | 37 | 2  | 10 | 2  | 46       | 24 |    |    |
| 17    |  | 0                                   | 6  | 0  | 8  | 0  | S  | 4  | 0  | S  | 4  | 0  | 17 | 0  | 33 | 0  | 54 | 1  | 18 | 1  | 49 | 2        | 22 | 23 |    |
| 18    |  | 0                                   | 8  | 0  | 12 | 0  | 10 | 0  | S  | 5  | 0  | S  | 6  | 0  | 20 | 0  | 38 | 1  | 0  | 1  | 28 | 1        | 59 | 22 |    |
| 19    |  | 0                                   | 10 | 0  | 16 | 0  | 17 | 0  | 13 | 0  | S  | 5  | 0  | S  | 6  | 0  | 22 | 0  | 42 | 1  | 7  | 1        | 36 | 21 |    |
| 20    |  | 0                                   | 13 | 0  | 20 | 0  | 23 | 0  | 22 | 0  | 16 | 0  | 7  | 0  | S  | 6  | 0  | 24 | 0  | 47 | 1  | 13       | 20 |    |    |
| 21    |  | 0                                   | 15 | 0  | 24 | 0  | 29 | 0  | 30 | 0  | 26 | 0  | 20 | 0  | 23 | 0  | S  | 9  | 0  | 6  | 0  | 27       | 0  | 59 | 19 |
| 22    |  | 0                                   | 17 | 0  | 28 | 0  | 35 | 0  | 38 | 0  | 37 | 0  | 33 | 0  | 24 | 0  | S  | 11 | 0  | S  | 7  | 0        | 28 | 18 |    |
| 23    |  | 0                                   | 19 | 0  | 32 | 0  | 41 | 0  | 46 | 0  | 47 | 0  | 46 | 0  | 39 | 0  | 28 | 0  | S  | 13 | 0  | S        | 6  | 17 |    |
| 24    |  | 0                                   | 21 | 0  | 36 | 0  | 47 | 0  | 54 | 0  | 58 | 0  | 58 | 0  | 54 | 0  | 45 | 0  | 32 | 0  | 16 | 16       |    |    |    |
| 25    |  | 0                                   | 23 | 0  | 40 | 0  | 53 | 1  | 2  | 1  | 8  | 1  | 11 | 1  | 9  | 1  | 2  | 0  | 51 | 0  | 38 | 15       |    |    |    |
| 26    |  | 0                                   | 24 | 0  | 43 | 0  | 59 | 1  | 10 | 1  | 18 | 1  | 23 | 1  | 23 | 1  | 19 | 1  | 10 | 0  | 59 | 14       |    |    |    |
| 27    |  | 0                                   | 26 | 0  | 47 | 1  | 4  | 1  | 17 | 1  | 28 | 1  | 35 | 1  | 37 | 1  | 35 | 1  | 29 | 1  | 20 | 13       |    |    |    |
| 28    |  | 0                                   | 28 | 0  | 51 | 1  | 10 | 1  | 25 | 1  | 38 | 1  | 47 | 1  | 51 | 1  | 51 | 1  | 48 | 1  | 41 | 12       |    |    |    |
| 29    |  | 0                                   | 29 | 0  | 54 | 1  | 15 | 1  | 32 | 1  | 47 | 1  | 58 | 2  | 5  | 2  | 7  | 2  | 6  | 2  | 2  | 11       |    |    |    |
| 30    |  | 0                                   | 31 | 0  | 58 | 1  | 21 | 1  | 40 | 1  | 57 | 2  | 9  | 2  | 18 | 2  | 23 | 2  | 24 | 2  | 22 | 10       |    |    |    |
| 31    |  | 0                                   | 33 | 1  | 1  | 1  | 26 | 1  | 47 | 2  | 6  | 2  | 20 | 2  | 31 | 2  | 38 | 2  | 42 | 2  | 42 | 9        |    |    |    |
| 32    |  | 0                                   | 34 | 1  | 5  | 1  | 32 | 1  | 55 | 2  | 15 | 2  | 31 | 2  | 44 | 2  | 53 | 2  | 59 | 3  | 1  | 8        |    |    |    |
| 33    |  | 0                                   | 36 | 1  | 8  | 1  | 37 | 2  | 2  | 2  | 24 | 2  | 42 | 2  | 57 | 3  | 8  | 3  | 16 | 3  | 20 | 7        |    |    |    |
| 34    |  | 0                                   | 38 | 1  | 12 | 1  | 42 | 2  | 9  | 2  | 33 | 2  | 53 | 3  | 10 | 3  | 23 | 3  | 33 | 3  | 39 | 6        |    |    |    |
| 35    |  | 0                                   | 40 | 1  | 15 | 1  | 47 | 2  | 16 | 2  | 42 | 3  | 3  | 3  | 22 | 3  | 37 | 3  | 49 | 3  | 58 | 5        |    |    |    |
| 36    |  | 0                                   | 41 | 1  | 18 | 1  | 51 | 2  | 23 | 2  | 50 | 3  | 14 | 3  | 34 | 3  | 51 | 4  | 5  | 4  | 16 | 4        |    |    |    |
| 37    |  | 0                                   | 43 | 1  | 21 | 1  | 56 | 2  | 29 | 2  | 58 | 3  | 24 | 3  | 46 | 4  | 5  | 4  | 21 | 4  | 34 | 3        |    |    |    |
| 38    |  | 0                                   | 44 | 1  | 24 | 2  | 1  | 2  | 35 | 3  | 6  | 3  | 34 | 3  | 58 | 4  | 19 | 4  | 37 | 4  | 52 | 2        |    |    |    |
| 39    |  | 0                                   | 46 | 1  | 27 | 2  | 5  | 2  | 41 | 3  | 14 | 3  | 44 | 4  | 9  | 4  | 32 | 4  | 52 | 5  | 9  | 1        |    |    |    |
| 40    |  | 0                                   | 47 | 1  | 30 | 2  | 10 | 2  | 47 | 3  | 22 | 3  | 53 | 4  | 20 | 4  | 45 | 5  | 7  | 5  | 26 | I        |    |    |    |
|       |  | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | conquata |    |    |    |
|       |  | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 |          |    |    |    |
|       |  | Distantia vera ☉ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | conquata |    |    |    |



## Composita &amp; absoluta Luna.

| Anom. |    |    | Anom. |    |  |
|-------|----|----|-------|----|--|
| 90    | 10 |    | 90    | 10 |  |
| 19    | 5  | 12 | 30    |    |  |
| 57    | 4  | 47 | 29    |    |  |
| 35    | 4  | 22 | 28    |    |  |
| 13    | 3  | 58 | 27    |    |  |
| 52    | 3  | 34 | 26    |    |  |
| 31    | 3  | 10 | 25    |    |  |
| 10    | 2  | 46 | 24    |    |  |
| 49    | 2  | 22 | 23    |    |  |
| 28    | 1  | 59 | 22    |    |  |
| 7     | 1  | 36 | 21    |    |  |
| 47    | 1  | 13 | 20    |    |  |
| 27    | 0  | 50 | 19    |    |  |
| 7     | 0  | 28 | 18    |    |  |
| 13    | 0  | 6  | 17    |    |  |
| 32    | 0  | 16 | 16    |    |  |
| 51    | 0  | 38 | 15    |    |  |
| 100   | 59 | 14 |       |    |  |
| 29    | 1  | 20 | 13    |    |  |
| 48    | 1  | 41 | 12    |    |  |
| 6     | 2  | 2  | 11    |    |  |
| 24    | 2  | 22 | 10    |    |  |
| 42    | 2  | 42 | 9     |    |  |
| 59    | 3  | 1  | 8     |    |  |
| 16    | 3  | 20 | 7     |    |  |
| 33    | 3  | 39 | 6     |    |  |
| 49    | 3  | 58 | 5     |    |  |
| 5     | 4  | 16 | 4     |    |  |
| 21    | 4  | 34 | 3     |    |  |
| 37    | 4  | 52 | 2     |    |  |
| 52    | 5  | 9  | 1     |    |  |
| 7     | 5  | 26 | 1     |    |  |
| 21    | 5  | 20 |       |    |  |

| Anom. |   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom. |  |
|-------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|--|
|       |   | 10                                  | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 10 |    |    |    |    |    |    |    |    |    |    |       |  |
|       |   | Subtrahe                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |
|       |   | I                                   | II | I  | II | I  | II | I  | II | I  | II | I  | II | I  | II | I  | II | I  | II | I  | II |       |  |
| I     | I | 0                                   | 47 | 1  | 30 | 2  | 10 | 2  | 47 | 3  | 22 | 3  | 53 | 4  | 20 | 4  | 45 | 5  | 7  | 5  | 26 | 30    |  |
| I     | I | 0                                   | 48 | 1  | 32 | 2  | 14 | 2  | 53 | 3  | 29 | 4  | 2  | 4  | 31 | 4  | 58 | 5  | 22 |    | 43 | 29    |  |
| 2     | 0 | 50                                  | 1  | 35 | 2  | 18 | 2  | 59 | 3  | 36 | 4  | 11 | 4  | 42 | 5  | 10 | 5  | 36 |    |    | 59 | 28    |  |
| 3     | 0 | 51                                  | 1  | 37 | 2  | 22 | 3  | 4  | 43 | 4  | 20 | 4  | 53 | 5  | 22 | 5  | 50 |    |    |    | 15 | 27    |  |
| 4     | 0 | 52                                  | 1  | 40 | 2  | 26 | 3  | 10 | 3  | 50 | 4  | 28 | 5  | 3  | 5  | 34 | 6  | 4  |    |    | 31 | 26    |  |
| 5     | 0 | 53                                  | 1  | 43 | 2  | 30 | 3  | 15 | 3  | 57 | 4  | 36 | 5  | 13 | 5  | 46 | 6  | 17 |    |    | 46 | 25    |  |
| 6     | 0 | 54                                  | 1  | 45 | 2  | 34 | 3  | 20 | 4  | 3  | 4  | 44 | 5  | 23 | 5  | 57 | 6  | 30 |    |    | 1  | 24    |  |
| 7     | 0 | 56                                  | 1  | 48 | 2  | 37 | 3  | 25 | 4  | 9  | 4  | 52 | 5  | 32 | 6  | 8  | 6  | 43 |    |    | 16 | 23    |  |
| 8     | 0 | 57                                  | 1  | 50 | 2  | 41 | 3  | 30 | 4  | 15 | 5  | 0  | 5  | 41 | 6  | 19 | 6  | 56 |    |    | 30 | 22    |  |
| 9     | 0 | 58                                  | 1  | 52 | 2  | 44 | 3  | 34 | 4  | 21 | 5  | 7  | 5  | 50 | 6  | 30 | 7  | 8  |    |    | 44 | 21    |  |
| 10    | 0 | 59                                  | 1  | 54 | 2  | 47 | 3  | 38 | 4  | 27 | 5  | 14 | 5  | 58 | 6  | 40 | 7  | 20 |    |    | 57 | 20    |  |
| 11    | I | 0                                   | 1  | 56 | 2  | 50 | 3  | 42 | 4  | 33 | 5  | 21 | 6  | 6  | 6  | 50 | 7  | 32 |    |    | 10 | 19    |  |
| 12    | I | 1                                   | 1  | 58 | 2  | 53 | 3  | 46 | 4  | 38 | 5  | 28 | 6  | 14 | 6  | 59 | 7  | 43 |    |    | 23 | 18    |  |
| 13    | I | 2                                   | 2  | 0  | 2  | 56 | 3  | 50 | 4  | 43 | 5  | 34 | 6  | 22 | 7  | 8  | 7  | 54 |    |    | 35 | 17    |  |
| 14    | I | 3                                   | 2  | 1  | 2  | 58 | 3  | 54 | 4  | 48 | 5  | 40 | 6  | 30 | 7  | 17 | 8  | 4  |    |    | 47 | 16    |  |
| 15    | I | 3                                   | 2  | 3  | 3  | 1  | 3  | 58 | 4  | 53 | 5  | 46 | 6  | 37 | 7  | 26 | 8  | 14 |    |    | 59 | 15    |  |
| 16    | I | 4                                   | 2  | 5  | 3  | 3  | 4  | 1  | 4  | 57 | 5  | 52 | 6  | 44 | 7  | 34 | 8  | 24 |    |    | 10 | 14    |  |
| 17    | I | 4                                   | 2  | 6  | 3  | 5  | 4  | 4  | 5  | 1  | 5  | 57 | 6  | 51 | 7  | 42 | 8  | 33 |    |    | 20 | 13    |  |
| 18    | I | 4                                   | 2  | 7  | 3  | 7  | 4  | 7  | 5  | 6  | 2  | 6  | 57 | 7  | 50 | 8  | 42 |    |    |    | 30 | 12    |  |
| 19    | I | 5                                   | 2  | 8  | 3  | 9  | 4  | 10 | 5  | 9  | 6  | 7  | 7  | 3  | 7  | 57 | 8  | 50 |    |    | 40 | 11    |  |
| 20    | I | 5                                   | 2  | 9  | 3  | 11 | 4  | 13 | 5  | 13 | 6  | 11 | 7  | 8  | 8  | 4  | 8  | 58 |    |    | 50 | 10    |  |
| 21    | I | 5                                   | 2  | 10 | 3  | 12 | 4  | 15 | 5  | 16 | 6  | 15 | 7  | 13 | 8  | 10 | 9  | 6  |    |    | 59 | 9     |  |
| 22    | I | 6                                   | 2  | 11 | 3  | 14 | 4  | 17 | 5  | 19 | 6  | 19 | 7  | 18 | 8  | 16 | 9  | 13 |    |    | 8  | 8     |  |
| 23    | I | 6                                   | 2  | 12 | 3  | 15 | 4  | 19 | 5  | 22 | 6  | 23 | 7  | 23 | 8  | 22 | 9  | 20 |    |    | 16 | 7     |  |
| 24    | I | 6                                   | 2  | 12 | 3  | 17 | 4  | 21 | 5  | 25 | 6  | 26 | 7  | 27 | 8  | 27 | 9  | 26 |    |    | 24 | 6     |  |
| 25    | I | 7                                   | 2  | 13 | 3  | 18 | 4  | 23 | 5  | 27 | 6  | 29 | 7  | 31 | 8  | 32 | 9  | 32 |    |    | 31 | 5     |  |
| 26    | I | 7                                   | 2  | 13 | 3  | 19 | 4  | 24 | 5  | 29 | 6  | 32 | 7  | 35 | 8  | 36 | 9  | 37 |    |    | 38 | 4     |  |
| 27    | I | 7                                   | 2  | 13 | 3  | 20 | 4  | 25 | 5  | 31 | 6  | 34 | 7  | 38 | 8  | 40 | 9  | 42 |    |    | 44 | 3     |  |
| 28    | I | 7                                   | 2  | 14 | 3  | 20 | 4  | 26 | 5  | 33 | 6  | 36 | 7  | 41 | 3  | 44 | 9  | 47 |    |    | 50 | 2     |  |
| 29    | I | 7                                   | 2  | 14 | 3  | 21 | 4  | 27 | 5  | 34 | 6  | 38 | 7  | 43 | 8  | 47 | 9  | 51 |    |    | 55 | 1     |  |
| 30    | I | 7                                   | 2  | 14 | 3  | 21 | 4  | 28 | 5  | 35 | 6  | 40 | 7  | 45 | 8  | 50 | 9  | 55 | 10 | 59 | 0  |       |  |
|       |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |
|       |   | 5                                   | 29 | 5  | 28 | 5  | 27 | 5  | 26 | 5  | 25 | 5  | 24 | 5  | 23 | 5  | 22 | 5  | 21 | 5  | 20 |       |  |
|       |   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |  |



| Anom.   | Distantia vera ☉ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | Anom.   |
|---------|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|---------|
|         | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 |         |
|         | Subtrahe                            |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |         |
|         | A                                   | "  | A  | "  | A  | "  | A  | "  | A  | "  | P | A  | P | A  | P | A  | P | A  | P | A  |         |
| 0       | 12                                  | 1  | 13 | 2  | 14 | 2  | 15 | 1  | 15 | 59 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 19 | 0 | 20 |         |
| 1       | 12                                  | 6  | 13 | 8  | 14 | 9  | 15 | 9  | 16 | 9  | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 19 | 0 | 20 |         |
| 2       | 12                                  | 11 | 13 | 14 | 14 | 16 | 15 | 17 | 16 | 18 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 |         |
| 3       | 12                                  | 15 | 13 | 19 | 14 | 22 | 15 | 25 | 16 | 27 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 |         |
| 4       | 12                                  | 19 | 13 | 24 | 14 | 28 | 15 | 32 | 16 | 35 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 |         |
| 5       | 12                                  | 22 | 13 | 28 | 14 | 33 | 15 | 38 | 16 | 42 | 0 | 17 | 0 | 19 | 0 | 19 | 0 | 20 | 0 | 22 |         |
| 6       | 12                                  | 25 | 13 | 32 | 14 | 38 | 15 | 44 | 16 | 50 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 | 0 | 22 |         |
| 7       | 12                                  | 28 | 13 | 35 | 14 | 42 | 15 | 49 | 16 | 56 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 | 0 | 22 |         |
| 8       | 12                                  | 31 | 13 | 38 | 14 | 46 | 15 | 54 | 17 | 2  | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 | 0 | 22 |         |
| 9       | 12                                  | 33 | 13 | 41 | 14 | 49 | 15 | 58 | 17 | 7  | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 | 0 | 22 |         |
| 10      | 12                                  | 35 | 13 | 43 | 14 | 52 | 16 | 2  | 17 | 11 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 21 | 0 | 22 |         |
| 11      | 12                                  | 36 | 13 | 45 | 14 | 55 | 16 | 5  | 17 | 15 | 0 | 18 | 0 | 19 | 0 | 20 | 0 | 22 | 0 | 23 |         |
| 12      | 12                                  | 36 | 13 | 46 | 14 | 57 | 16 | 7  | 17 | 18 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 13      | 12                                  | 36 | 13 | 46 | 14 | 58 | 16 | 9  | 17 | 20 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 14      | 12                                  | 35 | 13 | 46 | 14 | 58 | 16 | 10 | 17 | 22 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 15      | 12                                  | 33 | 13 | 45 | 14 | 57 | 16 | 10 | 17 | 23 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 16      | 12                                  | 31 | 13 | 44 | 14 | 56 | 16 | 10 | 17 | 23 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 17      | 12                                  | 29 | 13 | 42 | 14 | 54 | 16 | 9  | 17 | 23 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 18      | 12                                  | 26 | 13 | 39 | 14 | 52 | 16 | 7  | 17 | 22 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 19      | 12                                  | 23 | 13 | 36 | 14 | 49 | 16 | 5  | 17 | 21 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 20      | 12                                  | 19 | 13 | 32 | 14 | 46 | 16 | 2  | 17 | 19 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 21      | 12                                  | 14 | 13 | 27 | 14 | 42 | 15 | 58 | 17 | 16 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 22      | 12                                  | 9  | 13 | 22 | 14 | 38 | 15 | 54 | 17 | 12 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 23      | 12                                  | 3  | 13 | 17 | 14 | 33 | 15 | 49 | 17 | 8  | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 24      | 11                                  | 57 | 13 | 11 | 14 | 27 | 15 | 44 | 17 | 3  | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 25      | 11                                  | 51 | 13 | 5  | 14 | 21 | 15 | 38 | 16 | 57 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 26      | 11                                  | 44 | 12 | 58 | 14 | 14 | 15 | 32 | 16 | 51 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 27      | 11                                  | 37 | 12 | 51 | 14 | 7  | 15 | 25 | 16 | 44 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 28      | 11                                  | 29 | 12 | 43 | 13 | 59 | 15 | 17 | 16 | 36 | 0 | 17 | 0 | 20 | 0 | 21 | 0 | 22 | 0 | 23 |         |
| 29      | 11                                  | 21 | 12 | 35 | 13 | 51 | 15 | 9  | 16 | 28 | 0 | 17 | 0 | 19 | 0 | 20 | 0 | 22 | 0 | 23 |         |
| 30      | 11                                  | 12 | 12 | 26 | 13 | 42 | 15 | 0  | 16 | 19 | 0 | 17 | 0 | 19 | 0 | 20 | 0 | 22 | 0 | 23 |         |
| congrua | Adde                                |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | congrua |
|         | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 | 5 | 10 |         |
|         | Distantia vera ☉ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |         |



| Anom.   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.     |    |   |    |    |
|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|----|---|----|----|
|   | 11                                  | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |    |    |    |    |    |    |           |    |   |    |    |
| Subtrahe  |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |    |   |    |    |
|   | 1                                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17        |    |   |    |    |
| 1   | 11                                  | 12 | 12 | 26 | 13 | 42 | 15 | 0  | 16 | 19 | 0  | 17 | 0  | 19 | 0  | 20 | 0         | 22 | 0 | 23 | 30 |
| 1   | 11                                  | 3  | 12 | 16 | 13 | 32 | 14 | 50 | 16 | 9  | 0  | 17 | 0  | 19 | 0  | 20 | 0         | 22 | 0 | 23 | 29 |
| 2   | 10                                  | 53 | 12 | 6  | 13 | 21 | 14 | 39 | 15 | 58 | 0  | 16 | 0  | 18 | 0  | 20 | 0         | 21 | 0 | 22 | 28 |
| 3   | 10                                  | 43 | 11 | 55 | 13 | 10 | 14 | 28 | 15 | 47 | 0  | 16 | 0  | 18 | 0  | 20 | 0         | 21 | 0 | 22 | 27 |
| 4   | 10                                  | 32 | 11 | 44 | 12 | 59 | 14 | 16 | 15 | 35 | 0  | 16 | 0  | 18 | 0  | 20 | 0         | 21 | 0 | 22 | 26 |
| 5   | 10                                  | 21 | 11 | 33 | 12 | 47 | 14 | 4  | 15 | 23 | 0  | 16 | 0  | 18 | 0  | 19 | 0         | 21 | 0 | 22 | 25 |
| 6   | 10                                  | 10 | 11 | 21 | 12 | 35 | 13 | 51 | 15 | 10 | 0  | 16 | 0  | 17 | 0  | 19 | 0         | 20 | 0 | 22 | 24 |
| 7   | 9                                   | 58 | 11 | 9  | 12 | 22 | 13 | 38 | 14 | 56 | 0  | 16 | 0  | 17 | 0  | 19 | 0         | 20 | 0 | 21 | 23 |
| 8   | 9                                   | 46 | 10 | 56 | 12 | 9  | 13 | 24 | 14 | 41 | 0  | 15 | 0  | 17 | 0  | 19 | 0         | 20 | 0 | 21 | 22 |
| 9   | 9                                   | 33 | 10 | 43 | 11 | 55 | 13 | 9  | 14 | 26 | 0  | 15 | 0  | 17 | 0  | 19 | 0         | 20 | 0 | 21 | 21 |
| 10  | 9                                   | 20 | 10 | 39 | 11 | 40 | 12 | 54 | 14 | 10 | 0  | 15 | 0  | 17 | 0  | 18 | 0         | 20 | 0 | 21 | 20 |
| 11  | 9                                   | 6  | 10 | 14 | 11 | 25 | 12 | 38 | 13 | 53 | 0  | 15 | 0  | 16 | 0  | 18 | 0         | 19 | 0 | 21 | 19 |
| 12  | 8                                   | 52 | 9  | 59 | 11 | 9  | 12 | 21 | 13 | 35 | 0  | 15 | 0  | 16 | 0  | 18 | 0         | 19 | 0 | 20 | 18 |
| 13  | 8                                   | 37 | 9  | 44 | 10 | 53 | 12 | 4  | 13 | 17 | 0  | 14 | 0  | 16 | 0  | 18 | 0         | 19 | 0 | 20 | 17 |
| 14  | 8                                   | 22 | 9  | 28 | 10 | 36 | 11 | 47 | 12 | 58 | 0  | 14 | 0  | 16 | 0  | 17 | 0         | 18 | 0 | 20 | 16 |
| 15  | 8                                   | 7  | 9  | 12 | 10 | 19 | 11 | 29 | 12 | 39 | 0  | 14 | 0  | 16 | 0  | 17 | 0         | 18 | 0 | 20 | 15 |
| 16  | 7                                   | 51 | 8  | 55 | 10 | 1  | 11 | 11 | 12 | 20 | 0  | 14 | 0  | 16 | 0  | 17 | 0         | 18 | 0 | 20 | 14 |
| 17  | 7                                   | 35 | 8  | 37 | 9  | 43 | 10 | 52 | 12 | 1  | 0  | 13 | 0  | 15 | 0  | 16 | 0         | 17 | 0 | 19 | 13 |
| 18  | 7                                   | 18 | 8  | 19 | 9  | 24 | 10 | 33 | 11 | 42 | 0  | 13 | 0  | 15 | 0  | 16 | 0         | 17 | 0 | 19 | 12 |
| 19  | 7                                   | 1  | 8  | 1  | 9  | 5  | 10 | 13 | 11 | 22 | 0  | 13 | 0  | 15 | 0  | 16 | 0         | 16 | 0 | 19 | 11 |
| 20  | 6                                   | 43 | 7  | 42 | 8  | 45 | 9  | 52 | 11 | 1  | 0  | 12 | 0  | 14 | 0  | 15 | 0         | 16 | 0 | 18 | 10 |
| 21  | 6                                   | 25 | 7  | 23 | 8  | 24 | 9  | 30 | 10 | 39 | 0  | 12 | 0  | 14 | 0  | 15 | 0         | 16 | 0 | 18 | 9  |
| 22  | 6                                   | 6  | 7  | 3  | 8  | 3  | 9  | 8  | 10 | 17 | 0  | 11 | 0  | 13 | 0  | 14 | 0         | 15 | 0 | 17 | 8  |
| 23  | 5                                   | 47 | 6  | 43 | 7  | 42 | 8  | 45 | 9  | 54 | 0  | 11 | 0  | 13 | 0  | 14 | 0         | 15 | 0 | 16 | 7  |
| 24  | 5                                   | 28 | 6  | 22 | 7  | 20 | 8  | 22 | 9  | 30 | 0  | 10 | 0  | 12 | 0  | 13 | 0         | 14 | 0 | 16 | 6  |
| 25  | 5                                   | 8  | 6  | 1  | 6  | 58 | 7  | 59 | 9  | 6  | 0  | 10 | 0  | 12 | 0  | 13 | 0         | 14 | 0 | 15 | 5  |
| 26  | 4                                   | 48 | 5  | 39 | 6  | 35 | 7  | 35 | 8  | 41 | 0  | 9  | 0  | 11 | 0  | 12 | 0         | 13 | 0 | 15 | 4  |
| 27  | 4                                   | 27 | 5  | 17 | 6  | 12 | 7  | 11 | 8  | 15 | 0  | 9  | 0  | 11 | 0  | 12 | 0         | 13 | 0 | 14 | 3  |
| 28  | 4                                   | 6  | 4  | 55 | 5  | 48 | 6  | 46 | 7  | 49 | 0  | 9  | 0  | 11 | 0  | 11 | 0         | 12 | 0 | 14 | 2  |
| 29  | 3                                   | 44 | 4  | 32 | 5  | 24 | 6  | 21 | 7  | 22 | 0  | 8  | 0  | 10 | 0  | 11 | 0         | 12 | 0 | 13 | 1  |
| 30  | 3                                   | 22 | 4  | 9  | 5  | 0  | 5  | 55 | 6  | 54 | 0  | 8  | 0  | 9  | 0  | 10 | 0         | 11 | 0 | 13 | 10 |
| Adde  |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |    |   |    |    |
| 5 19 5 18 5 17 5 16 5 15 5 14 5 13 5 12 5 11 5 10 |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |    |   |    |    |
| Distantia vera ☉ à ☿, vel ab eius ☿               |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |           |    |   |    |    |
| corquaria   |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | corquaria |    |   |    |    |



| Anom.    | Distantia vera ☉ à ☿, vel ab eius ☿ |      |    |    |    |    |    |     |    |      |    |     |     |    |   |     |   |     |   |     | Anom.    |
|----------|-------------------------------------|------|----|----|----|----|----|-----|----|------|----|-----|-----|----|---|-----|---|-----|---|-----|----------|
|          | 0                                   | 11   | 0  | 12 | 0  | 13 | 0  | 14  | 0  | 15   | 0  | 16  | 0   | 17 | 0 | 18  | 0 | 19  | 0 | 20  |          |
|          | Subtrahe                            |      |    |    |    |    |    |     |    |      |    |     |     |    |   |     |   |     |   |     |          |
|          | I                                   | II   | I  | II | I  | II | I  | II  | I  | II   | P  | I   | P   | I  | P | I   | P | I   | P | I   |          |
| 2        | 3                                   | 22   | 4  | 9  | 5  | 0  | 5  | 55  | 6  | 54   | 0  | 8   | 0   | 9  | 0 | 10  | 0 | 11  | 0 | 13  | 30       |
| 1        | 3                                   | 0    | 3  | 46 | 4  | 35 | 5  | 28  | 6  | 26   | 0  | 8   | 0   | 9  | 0 | 10  | 0 | 11  | 0 | 12  | 29       |
| 2        | 2                                   | 38   | 3  | 22 | 4  | 10 | 5  | 1   | 5  | 58   | 0  | 7   | 0   | 8  | 0 | 9   | 0 | 10  | 0 | 12  | 28       |
| 3        | 2                                   | 16   | 2  | 58 | 3  | 44 | 4  | 34  | 5  | 59   | 0  | 7   | 0   | 8  | 0 | 9   | 0 | 10  | 0 | 11  | 27       |
| 4        | 1                                   | 53   | 2  | 33 | 3  | 18 | 4  | 6   | 5  | 0    | 0  | 6   | 0   | 7  | 0 | 8   | 0 | 9   | 0 | 11  | 26       |
| 5        | 1                                   | 30   | 2  | 8  | 2  | 51 | 3  | 38  | 4  | 30   | 0  | 6   | 0   | 7  | 0 | 8   | 0 | 9   | 0 | 10  | 25       |
| 6        | 1                                   | 6    | 1  | 43 | 2  | 24 | 3  | 9   | 4  | 0    | 0  | 5   | 0   | 6  | 0 | 7   | 0 | 8   | 0 | 10  | 24       |
| 7        | 0                                   | 42   | 1  | 17 | 1  | 56 | 2  | 40  | 3  | 29   | 0  | 5   | 0   | 5  | 0 | 7   | 0 | 7   | 0 | 9   | 23       |
| 8        | 0                                   | A 18 | 0  | 51 | 1  | 28 | 2  | 10  | 2  | 58   | 0  | 4   | 0   | 5  | 0 | 6   | 0 | 7   | 0 | 9   | 22       |
| 9        | 0                                   | A 7  | -A | 24 | 1  | 0  | 1  | 40  | 2  | 27   | 0  | 4   | 0   | 4  | 0 | 5   | 0 | 6   | 0 | 8   | 21       |
| 10       | 0                                   | 32   | 0  | 3  | 0  | 31 | 1  | 10  | 1  | 55   | 0  | 3   | 0   | 3  | 0 | 5   | 0 | 5   | 0 | 7   | 20       |
| 11       | 0                                   | 57   | 0  | 30 | 0  | A  | 2  | 0   | 39 | 1    | 22 | 0   | 3   | 0  | 3 | 0   | 4 | 0   | 5 | 0   | 19       |
| 12       | 1                                   | 22   | 0  | 57 | 0  | 27 | 0  | A 8 | 0  | 49   | 0  | 2   | 0   | 2  | 0 | 3   | 0 | 4   | 0 | 6   | 18       |
| 13       | 1                                   | 48   | 1  | 25 | 0  | 57 | 0  | 24  | 0  | A 15 | 0  | 2   | 0   | 1  | 0 | 3   | 0 | 3   | 0 | 5   | 17       |
| 14       | 2                                   | 14   | 1  | 53 | 1  | 27 | 0  | 56  | 0  | A 19 | 0  | 1   | 0   | 1  | 0 | 2   | 0 | 3   | 0 | 5   | 16       |
| 15       | 2                                   | 40   | 2  | 21 | 1  | 58 | 1  | 29  | 0  | 54   | 0  | A 0 | 0   | 0  | 0 | 1   | 0 | 2   | 0 | 4   | 15       |
| 16       | 3                                   | 6    | 2  | 50 | 2  | 29 | 2  | 1   | 29 | 0    | 0  | 0   | A 0 | 0  | 0 | 1   | 0 | 1   | 0 | 3   | 14       |
| 17       | 3                                   | 33   | 3  | 19 | 3  | 0  | 2  | 35  | 2  | 4    | 0  | 1   | 0   | 1  | 0 | A 0 | 0 | 1   | 0 | 2   | 13       |
| 18       | 4                                   | 0    | 3  | 48 | 3  | 31 | 3  | 8   | 2  | 40   | 0  | 2   | 0   | 1  | 0 | 1   | 0 | A 0 | 0 | 1   | 12       |
| 19       | 4                                   | 27   | 4  | 18 | 4  | 3  | 3  | 42  | 3  | 16   | 0  | 2   | 0   | 2  | 0 | 2   | 0 | 1   | 0 | A 0 | 11       |
| 20       | 4                                   | 55   | 4  | 48 | 4  | 35 | 4  | 16  | 3  | 52   | 0  | 3   | 0   | 2  | 0 | 2   | 0 | 1   | 0 | 1   | 10       |
| 21       | 5                                   | 23   | 5  | 18 | 5  | 7  | 4  | 50  | 4  | 28   | 0  | 4   | 0   | 3  | 0 | 3   | 0 | 2   | 0 | 2   | 9        |
| 22       | 5                                   | 51   | 5  | 48 | 5  | 40 | 5  | 25  | 5  | 5    | 0  | 4   | 0   | 4  | 0 | 4   | 0 | 3   | 0 | 3   | 8        |
| 23       | 6                                   | 19   | 6  | 19 | 6  | 13 | 6  | 0   | 5  | 42   | 0  | 5   | 0   | 4  | 0 | 4   | 0 | 3   | 0 | 3   | 7        |
| 24       | 6                                   | 48   | 6  | 50 | 6  | 46 | 6  | 35  | 6  | 19   | 0  | 6   | 0   | 5  | 0 | 5   | 0 | 4   | 0 | 4   | 6        |
| 25       | 7                                   | 16   | 7  | 21 | 7  | 19 | 7  | 11  | 6  | 57   | 0  | 6   | 0   | 6  | 0 | 6   | 0 | 5   | 0 | 5   | 5        |
| 26       | 7                                   | 45   | 7  | 52 | 7  | 53 | 7  | 46  | 7  | 35   | 0  | 7   | 0   | 6  | 0 | 6   | 0 | 5   | 0 | 6   | 4        |
| 27       | 8                                   | 14   | 8  | 24 | 8  | 26 | 8  | 22  | 8  | 13   | 0  | 7   | 0   | 7  | 0 | 7   | 0 | 6   | 0 | 6   | 3        |
| 28       | 8                                   | 43   | 8  | 55 | 9  | 0  | 8  | 58  | 8  | 52   | 0  | 8   | 0   | 8  | 0 | 8   | 0 | 7   | 0 | 7   | 2        |
| 29       | 9                                   | 12   | 9  | 26 | 9  | 34 | 9  | 34  | 9  | 30   | 0  | 8   | 0   | 8  | 0 | 8   | 0 | 8   | 0 | 8   | 1        |
| 30       | 9                                   | 42   | 9  | 58 | 10 | 8  | 10 | 11  | 10 | 9    | 0  | 9   | 0   | 9  | 0 | 9   | 0 | 9   | 0 | 8   | 9        |
| conquata | Subtrahe                            |      |    |    |    |    |    |     |    |      |    |     |     |    |   |     |   |     |   |     | conquata |
|          | 5                                   | 19   | 5  | 18 | 5  | 17 | 5  | 16  | 5  | 15   | 5  | 14  | 5   | 13 | 5 | 12  | 5 | 11  | 5 | 10  |          |
|          | Distantia vera ☉ à ☿, vel ab eius ☿ |      |    |    |    |    |    |     |    |      |    |     |     |    |   |     |   |     |   |     |          |



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| Anom. |   |    | 19 | 20 |
|-------|---|----|----|----|
| 1     | P | 1  |    |    |
| 11    | 0 | 13 | 30 |    |
| 11    | 0 | 12 | 29 |    |
| 10    | 0 | 12 | 28 |    |
| 10    | 0 | 11 | 27 |    |
| 9     | 0 | 11 | 26 |    |
| 9     | 0 | 10 | 25 |    |
| 8     | 0 | 10 | 24 |    |
| 7     | 0 | 9  | 23 |    |
| 7     | 0 | 9  | 22 |    |
| 6     | 0 | 8  | 21 |    |
| 5     | 0 | 7  | 20 |    |
| 5     | 0 | 7  | 19 |    |
| 4     | 0 | 6  | 18 |    |
| 3     | 0 | 5  | 17 |    |
| 3     | 0 | 5  | 16 |    |
| 2     | 0 | 4  | 15 |    |
| 1     | 0 | 3  | 14 |    |
| 1     | 0 | 2  | 13 |    |
| A     | 0 | 1  | 12 |    |
| 1     | 0 | A  | 11 |    |
| 1     | 0 | 1  | 10 |    |
| 2     | 0 | 2  | 9  |    |
| 3     | 0 | 3  | 8  |    |
| 3     | 0 | 3  | 7  |    |
| 4     | 0 | 4  | 6  |    |
| 5     | 0 | 5  | 5  |    |
| 5     | 0 | 6  | 4  |    |
| 6     | 0 | 6  | 3  |    |
| 7     | 0 | 7  | 2  |    |
| 8     | 0 | 8  | 1  |    |
| 9     | 0 | 9  |    |    |
| 11    | 5 | 10 |    |    |

| Anom. |    |    | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   | Anom. |   |    |
|-------|----|----|-------------------------------------|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|-------|---|----|
|       |    |    | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0 | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19    | 0 | 20 |
|       |    |    | Adde                                |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |       |   |    |
|       |    |    | 1                                   | 11 | 1  | 11 | 1  | 11 | 1  | 11 | 1 | 11 | 1 | 11 | 1 | 11 | 1 | 11 | 1 | 11    | 1 | 11 |
| 3     | 9  | 42 | 9                                   | 58 | 10 | 8  | 10 | 11 | 10 | 9  | 0 | 9  | 0 | 9  | 0 | 9  | 0 | 9  | 0 | 9     | 0 | 8  |
| 1     | 10 | 11 | 10                                  | 30 | 10 | 43 | 10 | 48 | 10 | 48 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10    | 0 | 9  |
| 2     | 10 | 41 | 11                                  | 2  | 11 | 17 | 11 | 25 | 11 | 27 | 0 | 11 | 0 | 11 | 0 | 11 | 0 | 11 | 0 | 10    | 0 | 10 |
| 3     | 11 | 10 | 11                                  | 34 | 11 | 52 | 12 | 2  | 12 | 7  | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 11    | 0 | 11 |
| 4     | 11 | 40 | 12                                  | 6  | 12 | 26 | 12 | 40 | 12 | 47 | 0 | 13 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12    | 0 | 11 |
| 5     | 12 | 9  | 12                                  | 38 | 13 | 1  | 13 | 17 | 13 | 27 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13    | 0 | 12 |
| 6     | 12 | 39 | 13                                  | 11 | 13 | 36 | 13 | 55 | 14 | 7  | 0 | 14 | 0 | 14 | 0 | 14 | 0 | 14 | 0 | 14    | 0 | 13 |
| 7     | 13 | 9  | 13                                  | 43 | 14 | 11 | 14 | 33 | 14 | 47 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 14    | 0 | 14 |
| 8     | 13 | 39 | 14                                  | 16 | 14 | 46 | 15 | 11 | 15 | 27 | 0 | 15 | 0 | 16 | 0 | 16 | 0 | 16 | 0 | 15    | 0 | 15 |
| 9     | 14 | 9  | 14                                  | 49 | 15 | 22 | 15 | 49 | 16 | 8  | 0 | 16 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 16    | 0 | 16 |
| 10    | 14 | 40 | 15                                  | 22 | 15 | 58 | 16 | 27 | 16 | 49 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17 | 0 | 17    | 0 | 16 |
| 11    | 15 | 10 | 15                                  | 55 | 16 | 33 | 17 | 5  | 17 | 30 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18    | 0 | 17 |
| 12    | 15 | 40 | 16                                  | 28 | 17 | 9  | 17 | 43 | 18 | 11 | 0 | 18 | 0 | 19 | 0 | 19 | 0 | 19 | 0 | 19    | 0 | 18 |
| 13    | 16 | 10 | 17                                  | 1  | 17 | 45 | 18 | 22 | 18 | 52 | 0 | 19 | 0 | 20 | 0 | 20 | 0 | 20 | 0 | 19    | 0 | 19 |
| 14    | 16 | 41 | 17                                  | 34 | 18 | 21 | 19 | 0  | 19 | 33 | 0 | 20 | 0 | 20 | 0 | 21 | 0 | 21 | 0 | 20    | 0 | 20 |
| 15    | 17 | 11 | 18                                  | 7  | 18 | 57 | 19 | 39 | 20 | 15 | 0 | 21 | 0 | 21 | 0 | 22 | 0 | 22 | 0 | 21    | 0 | 21 |
| 16    | 17 | 41 | 18                                  | 40 | 19 | 32 | 20 | 17 | 20 | 56 | 0 | 21 | 0 | 22 | 0 | 22 | 0 | 22 | 0 | 22    | 0 | 22 |
| 17    | 18 | 11 | 19                                  | 13 | 20 | 8  | 20 | 56 | 21 | 38 | 0 | 22 | 0 | 23 | 0 | 23 | 0 | 23 | 0 | 23    | 0 | 23 |
| 18    | 18 | 42 | 19                                  | 46 | 20 | 44 | 21 | 35 | 22 | 19 | 0 | 23 | 0 | 23 | 0 | 24 | 0 | 24 | 0 | 24    | 0 | 24 |
| 19    | 19 | 12 | 20                                  | 19 | 21 | 19 | 22 | 13 | 23 | 1  | 0 | 23 | 0 | 24 | 0 | 25 | 0 | 25 | 0 | 25    | 0 | 25 |
| 20    | 19 | 42 | 20                                  | 52 | 21 | 55 | 22 | 52 | 23 | 42 | 0 | 24 | 0 | 25 | 0 | 26 | 0 | 26 | 0 | 26    | 0 | 26 |
| 21    | 20 | 12 | 21                                  | 24 | 22 | 30 | 23 | 30 | 24 | 23 | 0 | 25 | 0 | 26 | 0 | 27 | 0 | 27 | 0 | 27    | 0 | 27 |
| 22    | 20 | 42 | 21                                  | 57 | 23 | 6  | 24 | 9  | 25 | 5  | 0 | 25 | 0 | 26 | 0 | 27 | 0 | 27 | 0 | 28    | 0 | 28 |
| 23    | 21 | 12 | 22                                  | 30 | 23 | 41 | 24 | 47 | 25 | 46 | 0 | 26 | 0 | 27 | 0 | 28 | 0 | 28 | 0 | 29    | 0 | 29 |
| 24    | 21 | 42 | 23                                  | 2  | 24 | 17 | 25 | 25 | 26 | 27 | 0 | 27 | 0 | 28 | 0 | 29 | 0 | 29 | 0 | 30    | 0 | 30 |
| 25    | 22 | 12 | 23                                  | 35 | 24 | 52 | 26 | 3  | 27 | 8  | 0 | 28 | 0 | 29 | 0 | 30 | 0 | 30 | 0 | 31    | 0 | 31 |
| 26    | 22 | 41 | 24                                  | 7  | 25 | 27 | 26 | 41 | 27 | 49 | 0 | 29 | 0 | 30 | 0 | 31 | 0 | 31 | 0 | 31    | 0 | 31 |
| 27    | 23 | 11 | 24                                  | 40 | 26 | 2  | 27 | 19 | 28 | 29 | 0 | 30 | 0 | 31 | 0 | 32 | 0 | 32 | 0 | 32    | 0 | 32 |
| 28    | 23 | 40 | 25                                  | 12 | 26 | 37 | 27 | 56 | 29 | 10 | 0 | 30 | 0 | 31 | 0 | 32 | 0 | 32 | 0 | 33    | 0 | 33 |
| 29    | 24 | 10 | 25                                  | 44 | 27 | 12 | 28 | 34 | 29 | 50 | 0 | 31 | 0 | 32 | 0 | 33 | 0 | 33 | 0 | 33    | 0 | 34 |
| 30    | 24 | 39 | 26                                  | 16 | 27 | 47 | 29 | 12 | 30 | 31 | 0 | 32 | 0 | 33 | 0 | 34 | 0 | 34 | 0 | 34    | 0 | 35 |
|       |    |    | Subtrahe                            |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |       |   |    |
|       |    |    | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5 | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11    | 5 | 10 |
|       |    |    | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |       |   |    |

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| Anom.   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | Anom. |         |
|---------|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|-------|---------|
|         | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 |       |         |
|         | Adde                                |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |         |
|         | I                                   | II | I  | II | I  | II | I  | II | P  | I  | P | I  | P | I  | P | I  | P | I  | P | I  |       |         |
| 4       | 24                                  | 39 | 26 | 16 | 27 | 47 | 29 | 12 | 30 | 31 | 0 | 32 | 0 | 33 | 0 | 34 | 0 | 34 | 0 | 35 |       |         |
| 1       | 25                                  | 8  | 26 | 48 | 28 | 22 | 29 | 50 | 31 | 11 | 0 | 33 | 0 | 34 | 0 | 35 | 0 | 35 | 0 | 36 |       |         |
| 2       | 25                                  | 37 | 27 | 20 | 28 | 57 | 30 | 27 | 31 | 51 | 0 | 33 | 0 | 34 | 0 | 35 | 0 | 36 | 0 | 37 |       |         |
| 3       | 26                                  | 6  | 27 | 52 | 29 | 31 | 31 | 4  | 32 | 31 | 0 | 34 | 0 | 35 | 0 | 36 | 0 | 37 | 0 | 37 |       |         |
| 4       | 26                                  | 34 | 28 | 23 | 30 | 5  | 31 | 41 | 33 | 11 | 0 | 35 | 0 | 36 | 0 | 37 | 0 | 38 | 0 | 38 |       |         |
| 5       | 27                                  | 2  | 28 | 54 | 30 | 39 | 32 | 18 | 33 | 50 | 0 | 35 | 0 | 36 | 0 | 37 | 0 | 38 | 0 | 39 |       |         |
| 6       | 27                                  | 30 | 29 | 25 | 31 | 13 | 32 | 54 | 34 | 29 | 0 | 36 | 0 | 37 | 0 | 38 | 0 | 39 | 0 | 40 |       |         |
| 7       | 27                                  | 58 | 29 | 56 | 31 | 47 | 33 | 30 | 35 | 8  | 0 | 37 | 0 | 38 | 0 | 39 | 0 | 40 | 0 | 41 |       |         |
| 8       | 28                                  | 25 | 30 | 26 | 32 | 20 | 34 | 6  | 35 | 47 | 0 | 38 | 0 | 39 | 0 | 40 | 0 | 41 | 0 | 42 |       |         |
| 9       | 28                                  | 53 | 30 | 56 | 32 | 53 | 34 | 42 | 36 | 26 | 0 | 38 | 0 | 39 | 0 | 41 | 0 | 42 | 0 | 43 |       |         |
| 10      | 29                                  | 20 | 31 | 26 | 33 | 26 | 35 | 18 | 37 | 4  | 0 | 39 | 0 | 40 | 0 | 41 | 0 | 43 | 0 | 44 |       |         |
| 11      | 29                                  | 47 | 31 | 56 | 33 | 59 | 35 | 53 | 37 | 42 | 0 | 40 | 0 | 41 | 0 | 42 | 0 | 43 | 0 | 45 |       |         |
| 12      | 30                                  | 14 | 32 | 26 | 34 | 31 | 36 | 28 | 38 | 20 | 0 | 40 | 0 | 42 | 0 | 43 | 0 | 44 | 0 | 46 |       |         |
| 13      | 30                                  | 41 | 32 | 55 | 35 | 3  | 37 | 3  | 38 | 57 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 45 | 0 | 47 |       |         |
| 14      | 31                                  | 7  | 33 | 24 | 35 | 35 | 37 | 38 | 39 | 34 | 0 | 42 | 0 | 43 | 0 | 45 | 0 | 46 | 0 | 47 |       |         |
| 15      | 31                                  | 33 | 33 | 53 | 36 | 6  | 38 | 12 | 40 | 11 | 0 | 42 | 0 | 44 | 0 | 46 | 0 | 47 | 0 | 48 |       |         |
| 16      | 31                                  | 59 | 34 | 21 | 36 | 37 | 38 | 46 | 40 | 47 | 0 | 43 | 0 | 45 | 0 | 46 | 0 | 48 | 0 | 49 |       |         |
| 17      | 32                                  | 24 | 34 | 49 | 37 | 8  | 39 | 19 | 41 | 23 | 0 | 44 | 0 | 45 | 0 | 47 | 0 | 48 | 0 | 50 |       |         |
| 18      | 32                                  | 49 | 35 | 17 | 37 | 38 | 39 | 52 | 41 | 59 | 0 | 44 | 0 | 46 | 0 | 48 | 0 | 49 | 0 | 50 |       |         |
| 19      | 33                                  | 14 | 35 | 44 | 38 | 8  | 40 | 24 | 42 | 34 | 0 | 45 | 0 | 47 | 0 | 49 | 0 | 50 | 0 | 51 |       |         |
| 20      | 33                                  | 38 | 36 | 11 | 38 | 37 | 40 | 56 | 43 | 9  | 0 | 46 | 0 | 48 | 0 | 49 | 0 | 51 | 0 | 52 |       |         |
| 21      | 34                                  | 2  | 36 | 37 | 39 | 6  | 41 | 28 | 43 | 43 | 0 | 46 | 0 | 48 | 0 | 50 | 0 | 52 | 0 | 53 |       |         |
| 22      | 34                                  | 26 | 37 | 3  | 39 | 35 | 41 | 59 | 44 | 17 | 0 | 47 | 0 | 49 | 0 | 51 | 0 | 53 | 0 | 54 |       |         |
| 23      | 34                                  | 40 | 37 | 29 | 40 | 3  | 42 | 30 | 44 | 51 | 0 | 48 | 0 | 50 | 0 | 51 | 0 | 53 | 0 | 54 |       |         |
| 24      | 35                                  | 12 | 37 | 54 | 40 | 31 | 43 | 0  | 45 | 24 | 0 | 48 | 0 | 50 | 0 | 52 | 0 | 54 | 0 | 55 |       |         |
| 25      | 35                                  | 35 | 38 | 19 | 40 | 58 | 43 | 30 | 45 | 57 | 0 | 49 | 0 | 51 | 0 | 53 | 0 | 55 | 0 | 56 |       |         |
| 26      | 35                                  | 57 | 38 | 44 | 41 | 25 | 43 | 59 | 46 | 29 | 0 | 49 | 0 | 52 | 0 | 54 | 0 | 56 | 0 | 57 |       |         |
| 27      | 36                                  | 19 | 39 | 8  | 41 | 52 | 44 | 28 | 47 | 10 | 0 | 49 | 0 | 52 | 0 | 54 | 0 | 56 | 0 | 57 |       |         |
| 28      | 36                                  | 40 | 39 | 32 | 42 | 18 | 44 | 57 | 47 | 32 | 0 | 50 | 0 | 53 | 0 | 55 | 0 | 57 | 0 | 58 |       |         |
| 29      | 37                                  | 1  | 39 | 55 | 42 | 44 | 45 | 25 | 48 | 2  | 0 | 50 | 0 | 54 | 0 | 56 | 0 | 58 | 0 | 59 |       |         |
| 30      | 37                                  | 21 | 40 | 18 | 43 | 9  | 45 | 53 | 48 | 32 | 0 | 51 | 0 | 54 | 0 | 56 | 0 | 58 | 0 | 59 |       |         |
| congrua | Subtrahere                          |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       | congrua |
|         | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 | 5 | 10 |       |         |
|         | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |         |



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| 19 0 20 |   |    | Anom.   |
|---------|---|----|---------|
| P       |   |    |         |
| 34      | 0 | 35 | 30      |
| 35      | 0 | 36 | 29      |
| 36      | 0 | 37 | 28      |
| 37      | 0 | 37 | 27      |
| 38      | 0 | 38 | 26      |
| 38      | 0 | 39 | 25      |
| 39      | 0 | 40 | 24      |
| 40      | 0 | 41 | 23      |
| 41      | 0 | 42 | 22      |
| 42      | 0 | 43 | 21      |
| 43      | 0 | 44 | 20      |
| 43      | 0 | 45 | 19      |
| 44      | 0 | 46 | 18      |
| 45      | 0 | 47 | 17      |
| 46      | 0 | 47 | 16      |
| 47      | 0 | 48 | 15      |
| 48      | 0 | 49 | 14      |
| 48      | 0 | 50 | 13      |
| 49      | 0 | 50 | 12      |
| 50      | 0 | 51 | 11      |
| 51      | 0 | 52 | 10      |
| 52      | 0 | 53 | 9       |
| 53      | 0 | 54 | 8       |
| 53      | 0 | 54 | 7       |
| 54      | 0 | 55 | 6       |
| 55      | 0 | 56 | 5       |
| 56      | 0 | 57 | 4       |
| 56      | 0 | 57 | 3       |
| 57      | 0 | 58 | 2       |
| 58      | 0 | 59 | 1       |
| 58      | 1 | 0  | 7       |
| 11 5 10 |   |    | congrua |

| Anom. |   | Distantia vera ☉ à ☽, vel ab eius ☿               |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | Anom. |  |
|-------|---|---|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|-------|--|
|       |   | 11 0 12 0 13 0 14 0 15 0 16 0 17 0 18 0 19 0 20   |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |
|       |   | Adde  |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |
|       |   | P       |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |
| 5     | 1 | 37  | 21 | 40 | 18 | 43 | 2  | 45 | 53 | 48 | 32 | 0 | 51 | 0 | 54 | 0 | 56 | 0 | 58 | 1 | 0  | 30    |  |
| 1     |   | 37  | 41 | 40 | 40 | 43 | 34 | 46 | 20 | 49 | 1  | 0 | 51 | 0 | 54 | 0 | 57 | 0 | 59 | 1 | 1  | 29    |  |
| 2     |   | 38  | 1  | 41 | 2  | 43 | 58 | 46 | 47 | 49 | 30 | 0 | 52 | 0 | 55 | 0 | 57 | 0 | 59 | 1 | 2  | 28    |  |
| 3     |   | 38  | 20 | 41 | 23 | 44 | 22 | 47 | 13 | 49 | 58 | 0 | 52 | 0 | 55 | 0 | 58 | 1 | 0  | 1 | 2  | 27    |  |
| 4     |   | 38  | 39 | 41 | 44 | 44 | 45 | 47 | 38 | 50 | 26 | 0 | 53 | 0 | 55 | 0 | 58 | 1 | 0  | 1 | 3  | 26    |  |
| 5     |   | 38  | 57 | 42 | 4  | 45 | 7  | 48 | 3  | 50 | 54 | 0 | 53 | 0 | 56 | 0 | 59 | 1 | 1  | 1 | 3  | 25    |  |
| 6     |   | 39  | 15 | 42 | 24 | 45 | 29 | 48 | 27 | 51 | 21 | 0 | 54 | 0 | 56 | 0 | 59 | 1 | 1  | 1 | 4  | 24    |  |
| 7     |   | 39  | 32 | 42 | 43 | 45 | 50 | 48 | 51 | 51 | 47 | 0 | 54 | 0 | 57 | 1 | 0  | 1 | 2  | 1 | 4  | 23    |  |
| 8     |   | 39  | 49 | 43 | 2  | 46 | 11 | 49 | 14 | 52 | 13 | 0 | 55 | 0 | 57 | 1 | 0  | 1 | 2  | 1 | 5  | 22    |  |
| 9     |   | 40  | 6  | 43 | 21 | 46 | 32 | 49 | 37 | 52 | 38 | 0 | 55 | 0 | 58 | 1 | 1  | 1 | 3  | 1 | 6  | 21    |  |
| 10    |   | 40  | 22 | 43 | 39 | 46 | 52 | 49 | 59 | 53 | 2  | 0 | 56 | 0 | 58 | 1 | 1  | 1 | 3  | 1 | 6  | 20    |  |
| 11    |   | 40  | 38 | 43 | 57 | 47 | 12 | 50 | 21 | 53 | 26 | 0 | 56 | 0 | 59 | 1 | 2  | 1 | 4  | 1 | 7  | 19    |  |
| 12    |   | 40  | 54 | 44 | 15 | 47 | 31 | 50 | 42 | 53 | 49 | 0 | 57 | 0 | 59 | 1 | 2  | 1 | 4  | 1 | 8  | 18    |  |
| 13    |   | 41  | 9  | 44 | 32 | 47 | 50 | 51 | 3  | 54 | 11 | 0 | 57 | 1 | 0  | 1 | 3  | 1 | 5  | 1 | 8  | 17    |  |
| 14    |   | 41  | 24 | 44 | 49 | 48 | 9  | 51 | 23 | 54 | 33 | 0 | 58 | 1 | 0  | 1 | 3  | 1 | 5  | 1 | 9  | 16    |  |
| 15    |   | 41  | 38 | 45 | 5  | 48 | 27 | 51 | 43 | 54 | 54 | 0 | 58 | 1 | 1  | 1 | 4  | 1 | 6  | 1 | 10 | 15    |  |
| 16    |   | 41  | 51 | 45 | 20 | 48 | 44 | 52 | 2  | 55 | 15 | 0 | 59 | 1 | 1  | 1 | 4  | 1 | 6  | 1 | 10 | 14    |  |
| 17    |   | 42  | 4  | 45 | 34 | 49 | 0  | 52 | 20 | 55 | 35 | 0 | 59 | 1 | 2  | 1 | 5  | 1 | 7  | 1 | 11 | 13    |  |
| 18    |   | 42  | 16 | 45 | 48 | 49 | 16 | 52 | 37 | 55 | 54 | 0 | 59 | 1 | 2  | 1 | 5  | 1 | 7  | 1 | 11 | 12    |  |
| 19    |   | 42  | 28 | 46 | 1  | 49 | 31 | 52 | 54 | 56 | 13 | 1 | 0  | 1 | 2  | 1 | 5  | 1 | 8  | 1 | 12 | 11    |  |
| 20    |   | 42  | 39 | 46 | 14 | 49 | 45 | 53 | 10 | 56 | 31 | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 8  | 1 | 12 | 10    |  |
| 21    |   | 42  | 50 | 46 | 26 | 49 | 59 | 53 | 26 | 56 | 48 | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 12 | 9     |  |
| 22    |   | 43  | 0  | 46 | 38 | 50 | 12 | 53 | 41 | 57 | 4  | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 13 | 8     |  |
| 23    |   | 43  | 10 | 46 | 49 | 50 | 24 | 53 | 55 | 57 | 20 | 1 | 0  | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 13 | 7     |  |
| 24    |   | 43  | 20 | 47 | 0  | 50 | 36 | 54 | 8  | 57 | 35 | 1 | 0  | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 13 | 6     |  |
| 25    |   | 43  | 29 | 47 | 10 | 50 | 47 | 54 | 21 | 57 | 50 | 1 | 0  | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 13 | 5     |  |
| 26    |   | 43  | 37 | 47 | 19 | 50 | 58 | 54 | 33 | 58 | 4  | 1 | 1  | 1 | 4  | 1 | 8  | 1 | 11 | 1 | 14 | 4     |  |
| 27    |   | 43  | 44 | 47 | 28 | 51 | 8  | 54 | 45 | 58 | 17 | 1 | 1  | 1 | 4  | 1 | 8  | 1 | 11 | 1 | 14 | 3     |  |
| 28    |   | 43  | 51 | 47 | 36 | 51 | 17 | 54 | 56 | 58 | 30 | 1 | 1  | 1 | 4  | 1 | 8  | 1 | 11 | 1 | 14 | 2     |  |
| 29    |   | 43  | 57 | 47 | 43 | 51 | 25 | 55 | 6  | 58 | 42 | 1 | 2  | 1 | 5  | 1 | 9  | 1 | 12 | 1 | 15 | 1     |  |
| 30    |   | 44  | 2  | 47 | 43 | 51 | 33 | 55 | 15 | 58 | 53 | 1 | 2  | 1 | 5  | 1 | 9  | 1 | 12 | 1 | 15 | 0     |  |
|       |   | Subtrahere  |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |
|       |   | 5 19 5 18 5 17 5 16 5 15 5 14 5 13 5 12 5 11 5 10 |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |
|       |   | Distantia vera ☉ à ☽, vel ab eius ☿               |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |
|       |   |   |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |       |  |



## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| Anom.                               | Distantia vera ☉ à ☉, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    | Anom.    |    |    |
|-------------------------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|----------|----|----|
|                                     | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 |          | 0  | 20 |
|                                     | Adde                                |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |          |    |    |
|                                     | I                                   | "  | I  | "  | I  | "  | I  | "  | P  | I  | P | I  | P | I  | P | I  | P | I  | P        | I  |    |
| 0                                   | 44                                  | 2  | 47 | 49 | 51 | 33 | 55 | 15 | 58 | 53 | 1 | 2  | 1 | 5  | 1 | 9  | 1 | 12 | 1        | 15 | 30 |
| 1                                   | 44                                  | 7  | 47 | 55 | 51 | 40 | 55 | 23 | 59 | 3  | 1 | 2  | 1 | 5  | 1 | 9  | 1 | 12 | 1        | 15 | 29 |
| 2                                   | 44                                  | 12 | 48 | 1  | 51 | 47 | 55 | 31 | 59 | 12 | 1 | 2  | 1 | 6  | 1 | 9  | 1 | 13 | 1        | 16 | 28 |
| 3                                   | 44                                  | 16 | 48 | 6  | 51 | 53 | 55 | 38 | 59 | 20 | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 13 | 1        | 16 | 27 |
| 4                                   | 44                                  | 20 | 48 | 11 | 51 | 59 | 55 | 44 | 59 | 28 | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 13 | 1        | 16 | 26 |
| 5                                   | 44                                  | 23 | 48 | 16 | 52 | 5  | 55 | 50 | 59 | 35 | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 14 | 1        | 17 | 25 |
| 6                                   | 44                                  | 26 | 48 | 20 | 52 | 10 | 55 | 55 | 59 | 41 | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 14 | 1        | 17 | 24 |
| 7                                   | 44                                  | 28 | 48 | 23 | 52 | 14 | 56 | 0  | 59 | 46 | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 14 | 1        | 17 | 23 |
| 8                                   | 44                                  | 30 | 48 | 25 | 52 | 17 | 56 | 4  | 59 | 51 | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 14 | 1        | 17 | 22 |
| 9                                   | 44                                  | 31 | 48 | 26 | 52 | 19 | 56 | 8  | 59 | 55 | 1 | 4  | 1 | 7  | 1 | 10 | 1 | 14 | 1        | 17 | 21 |
| 10                                  | 44                                  | 31 | 48 | 27 | 52 | 21 | 56 | 11 | 59 | 58 | 1 | 4  | 1 | 7  | 1 | 10 | 1 | 14 | 1        | 17 | 20 |
| 11                                  | 44                                  | 31 | 48 | 27 | 52 | 22 | 56 | 13 | 60 | 0  | 1 | 4  | 1 | 7  | 1 | 10 | 1 | 15 | 1        | 18 | 19 |
| 12                                  | 44                                  | 30 | 48 | 27 | 52 | 21 | 56 | 14 | 60 | 1  | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 18 |
| 13                                  | 44                                  | 28 | 48 | 26 | 52 | 21 | 56 | 13 | 60 | 2  | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 17 |
| 14                                  | 44                                  | 26 | 48 | 24 | 52 | 20 | 56 | 13 | 60 | 2  | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 16 |
| 15                                  | 44                                  | 23 | 48 | 22 | 52 | 19 | 56 | 12 | 60 | 2  | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 15 |
| 16                                  | 44                                  | 20 | 48 | 19 | 52 | 17 | 56 | 10 | 60 | 1  | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 14 |
| 17                                  | 44                                  | 17 | 48 | 16 | 52 | 14 | 56 | 7  | 59 | 59 | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 13 |
| 18                                  | 33                                  | 13 | 48 | 12 | 52 | 10 | 56 | 4  | 59 | 56 | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 12 |
| 19                                  | 44                                  | 9  | 48 | 8  | 52 | 5  | 56 | 0  | 59 | 52 | 1 | 4  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 11 |
| 20                                  | 44                                  | 4  | 48 | 3  | 52 | 0  | 55 | 55 | 59 | 48 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 10 |
| 21                                  | 43                                  | 59 | 47 | 58 | 51 | 54 | 55 | 50 | 59 | 43 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 9  |
| 22                                  | 43                                  | 53 | 47 | 52 | 51 | 48 | 55 | 44 | 59 | 38 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 8  |
| 23                                  | 43                                  | 47 | 47 | 45 | 51 | 41 | 55 | 38 | 59 | 32 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 7  |
| 24                                  | 43                                  | 40 | 47 | 38 | 51 | 34 | 55 | 31 | 59 | 25 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 6  |
| 25                                  | 43                                  | 32 | 47 | 30 | 51 | 27 | 55 | 23 | 59 | 17 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1        | 18 | 5  |
| 26                                  | 43                                  | 24 | 47 | 22 | 51 | 19 | 55 | 15 | 59 | 9  | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 14 | 1        | 17 | 4  |
| 27                                  | 43                                  | 15 | 47 | 13 | 51 | 10 | 55 | 6  | 59 | 0  | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 14 | 1        | 17 | 3  |
| 28                                  | 43                                  | 6  | 47 | 4  | 51 | 1  | 54 | 56 | 58 | 50 | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 14 | 1        | 17 | 2  |
| 29                                  | 42                                  | 56 | 46 | 54 | 50 | 51 | 54 | 46 | 58 | 39 | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 14 | 1        | 17 | 1  |
| 30                                  | 42                                  | 45 | 46 | 43 | 50 | 40 | 54 | 35 | 58 | 28 | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 14 | 1        | 17 | 5  |
| conquata                            | Subtrahe                            |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    | conquata |    |    |
|                                     | 5                                   | 19 | 5  | 28 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 |          | 5  | 10 |
| Distantia vera ☉ à ☉, vel ab eius ☉ |                                     |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |          |    |    |



| Anom.    |  | Distantia vera ☉ à ☿, vel ab eius ♀ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | Anom.    |  |  |
|----------|--|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|----------|--|--|
|          |  | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 |          |  |  |
|          |  | Adde                                |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |          |  |  |
|          |  | i                                   | ii | i  | ii | i  | ii | i  | ii | i  | ii | P | i  | P | i  | P | i  | P | i  | P | i  | P        |  |  |
| 7        |  | 42                                  | 45 | 46 | 43 | 50 | 40 | 54 | 35 | 58 | 28 | 1 | 2  | 1 | 6  | 1 | 10 | 2 | 14 | 1 | 17 | 30       |  |  |
| 1        |  | 42                                  | 34 | 46 | 32 | 50 | 28 | 54 | 23 | 58 | 16 | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 14 | 1 | 17 | 29       |  |  |
| 2        |  | 42                                  | 23 | 46 | 20 | 50 | 16 | 54 | 11 | 58 | 3  | 1 | 1  | 1 | 5  | 1 | 9  | 1 | 13 | 1 | 16 | 28       |  |  |
| 3        |  | 42                                  | 11 | 46 | 7  | 50 | 3  | 53 | 58 | 57 | 50 | 1 | 1  | 1 | 5  | 1 | 9  | 1 | 13 | 1 | 16 | 27       |  |  |
| 4        |  | 41                                  | 58 | 45 | 54 | 49 | 49 | 53 | 44 | 57 | 36 | 1 | 1  | 1 | 5  | 1 | 9  | 1 | 13 | 1 | 16 | 26       |  |  |
| 5        |  | 41                                  | 45 | 45 | 40 | 49 | 35 | 53 | 29 | 57 | 21 | 1 | 1  | 1 | 5  | 1 | 9  | 1 | 13 | 1 | 16 | 25       |  |  |
| 6        |  | 41                                  | 31 | 45 | 26 | 49 | 20 | 53 | 14 | 57 | 5  | 1 | 1  | 1 | 5  | 1 | 9  | 1 | 13 | 1 | 16 | 24       |  |  |
| 7        |  | 41                                  | 17 | 45 | 11 | 49 | 5  | 52 | 58 | 56 | 49 | 1 | 1  | 1 | 5  | 1 | 8  | 1 | 12 | 1 | 16 | 23       |  |  |
| 8        |  | 41                                  | 3  | 44 | 56 | 48 | 49 | 52 | 41 | 56 | 32 | 1 | 0  | 1 | 4  | 1 | 8  | 1 | 12 | 1 | 15 | 22       |  |  |
| 9        |  | 40                                  | 48 | 44 | 40 | 48 | 32 | 52 | 24 | 56 | 14 | 1 | 0  | 1 | 4  | 1 | 8  | 1 | 12 | 1 | 15 | 21       |  |  |
| 10       |  | 40                                  | 33 | 44 | 24 | 48 | 15 | 52 | 6  | 55 | 56 | 1 | 0  | 1 | 4  | 1 | 8  | 1 | 12 | 1 | 15 | 20       |  |  |
| 11       |  | 40                                  | 17 | 44 | 7  | 47 | 57 | 51 | 48 | 55 | 37 | 0 | 59 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 14 | 19       |  |  |
| 12       |  | 40                                  | 1  | 43 | 50 | 47 | 39 | 51 | 29 | 55 | 18 | 0 | 59 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 14 | 18       |  |  |
| 13       |  | 39                                  | 44 | 43 | 32 | 47 | 21 | 51 | 10 | 54 | 58 | 0 | 59 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 14 | 17       |  |  |
| 14       |  | 39                                  | 27 | 43 | 14 | 47 | 2  | 50 | 50 | 54 | 37 | 0 | 58 | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 13 | 16       |  |  |
| 15       |  | 39                                  | 10 | 42 | 56 | 46 | 43 | 50 | 30 | 54 | 15 | 0 | 58 | 1 | 2  | 1 | 6  | 1 | 10 | 1 | 13 | 15       |  |  |
| 16       |  | 38                                  | 52 | 42 | 37 | 46 | 23 | 50 | 9  | 53 | 53 | 0 | 58 | 1 | 2  | 1 | 5  | 1 | 9  | 1 | 12 | 14       |  |  |
| 17       |  | 38                                  | 34 | 42 | 17 | 46 | 2  | 49 | 47 | 53 | 30 | 0 | 57 | 1 | 1  | 1 | 5  | 1 | 9  | 1 | 12 | 13       |  |  |
| 18       |  | 38                                  | 15 | 41 | 57 | 45 | 41 | 49 | 25 | 53 | 7  | 0 | 57 | 1 | 1  | 1 | 4  | 1 | 8  | 1 | 11 | 12       |  |  |
| 19       |  | 37                                  | 56 | 41 | 36 | 45 | 19 | 49 | 2  | 52 | 43 | 0 | 57 | 1 | 0  | 1 | 4  | 1 | 8  | 1 | 11 | 11       |  |  |
| 20       |  | 37                                  | 36 | 41 | 15 | 44 | 57 | 48 | 39 | 52 | 19 | 0 | 56 | 1 | 0  | 1 | 3  | 1 | 7  | 1 | 10 | 10       |  |  |
| 21       |  | 37                                  | 16 | 40 | 54 | 44 | 34 | 48 | 15 | 51 | 54 | 0 | 56 | 0 | 59 | 1 | 3  | 1 | 7  | 1 | 10 | 9        |  |  |
| 22       |  | 36                                  | 56 | 40 | 32 | 44 | 11 | 47 | 50 | 51 | 29 | 0 | 55 | 0 | 59 | 1 | 2  | 1 | 6  | 1 | 9  | 8        |  |  |
| 23       |  | 36                                  | 35 | 40 | 10 | 43 | 47 | 47 | 25 | 51 | 3  | 0 | 55 | 0 | 58 | 1 | 2  | 1 | 6  | 1 | 9  | 7        |  |  |
| 24       |  | 36                                  | 14 | 39 | 48 | 43 | 23 | 46 | 59 | 50 | 36 | 0 | 54 | 0 | 58 | 1 | 1  | 1 | 5  | 1 | 8  | 6        |  |  |
| 25       |  | 35                                  | 53 | 39 | 25 | 42 | 59 | 46 | 33 | 50 | 9  | 0 | 54 | 0 | 58 | 1 | 1  | 1 | 5  | 1 | 8  | 5        |  |  |
| 26       |  | 35                                  | 31 | 39 | 2  | 42 | 34 | 46 | 7  | 49 | 41 | 0 | 53 | 0 | 57 | 1 | 0  | 1 | 4  | 1 | 7  | 4        |  |  |
| 27       |  | 35                                  | 9  | 38 | 38 | 42 | 8  | 45 | 40 | 49 | 13 | 0 | 53 | 0 | 57 | 1 | 0  | 1 | 4  | 1 | 7  | 3        |  |  |
| 28       |  | 34                                  | 46 | 38 | 13 | 41 | 42 | 45 | 13 | 48 | 44 | 0 | 52 | 0 | 56 | 0 | 59 | 1 | 3  | 1 | 6  | 2        |  |  |
| 29       |  | 34                                  | 23 | 37 | 48 | 41 | 16 | 44 | 45 | 48 | 15 | 0 | 52 | 0 | 56 | 0 | 58 | 1 | 3  | 1 | 6  | 1        |  |  |
| 30       |  | 34                                  | 0  | 37 | 23 | 40 | 49 | 44 | 17 | 47 | 45 | 0 | 51 | 0 | 55 | 0 | 58 | 1 | 2  | 1 | 5  | 4        |  |  |
| conquata |  |                                     |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | conquata |  |  |
|          |  | Subtrahe                            |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |          |  |  |
|          |  | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 | 5 | 10 |          |  |  |
|          |  | Distantia vera ☉ à ☿, vel ab eius ♀ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |          |  |  |



## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| Anom.                               | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | Anom.    |
|-------------------------------------|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|----------|
|                                     | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 |          |
| Adde                                |                                     |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |          |
|                                     | I                                   | II | I  | II | I  | II | I  | II | P  | I  | P | I  | P | I  | P | I  | P | I  | P | I  |          |
| 0                                   | 34                                  | 0  | 37 | 23 | 40 | 49 | 44 | 17 | 47 | 45 | 0 | 51 | 0 | 55 | 0 | 58 | 1 | 2  | 1 | 5  | 30       |
| 1                                   | 33                                  | 37 | 36 | 58 | 40 | 21 | 43 | 48 | 47 | 15 | 0 | 51 | 0 | 55 | 0 | 58 | 1 | 2  | 1 | 5  | 29       |
| 2                                   | 33                                  | 13 | 36 | 32 | 39 | 55 | 43 | 19 | 46 | 44 | 0 | 50 | 0 | 54 | 0 | 57 | 1 | 1  | 1 | 4  | 28       |
| 3                                   | 32                                  | 49 | 36 | 6  | 39 | 27 | 42 | 49 | 46 | 13 | 0 | 50 | 0 | 54 | 0 | 57 | 1 | 0  | 1 | 4  | 27       |
| 4                                   | 32                                  | 24 | 35 | 40 | 38 | 59 | 42 | 19 | 45 | 41 | 0 | 49 | 0 | 53 | 0 | 56 | 1 | 0  | 1 | 3  | 26       |
| 5                                   | 31                                  | 59 | 35 | 13 | 38 | 30 | 41 | 49 | 45 | 9  | 0 | 49 | 0 | 53 | 0 | 56 | 1 | 0  | 1 | 3  | 25       |
| 6                                   | 31                                  | 34 | 34 | 46 | 38 | 1  | 41 | 18 | 44 | 37 | 0 | 48 | 0 | 52 | 0 | 55 | 0 | 59 | 1 | 2  | 24       |
| 7                                   | 31                                  | 9  | 34 | 19 | 37 | 32 | 40 | 47 | 44 | 14 | 0 | 48 | 0 | 52 | 0 | 54 | 0 | 59 | 1 | 2  | 23       |
| 8                                   | 30                                  | 43 | 33 | 52 | 37 | 3  | 40 | 16 | 43 | 31 | 0 | 47 | 0 | 51 | 0 | 54 | 0 | 58 | 1 | 1  | 22       |
| 9                                   | 30                                  | 18 | 33 | 24 | 36 | 33 | 39 | 44 | 42 | 58 | 0 | 47 | 0 | 50 | 0 | 53 | 0 | 57 | 1 | 0  | 21       |
| 10                                  | 29                                  | 52 | 32 | 56 | 36 | 3  | 39 | 12 | 42 | 24 | 0 | 46 | 0 | 50 | 0 | 52 | 0 | 57 | 1 | 0  | 20       |
| 11                                  | 29                                  | 26 | 32 | 28 | 35 | 33 | 38 | 40 | 41 | 50 | 0 | 46 | 0 | 49 | 0 | 52 | 0 | 56 | 0 | 59 | 19       |
| 12                                  | 28                                  | 59 | 31 | 59 | 35 | 2  | 38 | 7  | 41 | 15 | 0 | 45 | 0 | 48 | 0 | 51 | 0 | 55 | 0 | 58 | 18       |
| 13                                  | 28                                  | 32 | 31 | 30 | 34 | 31 | 37 | 34 | 40 | 40 | 0 | 44 | 0 | 48 | 0 | 50 | 0 | 54 | 0 | 58 | 17       |
| 14                                  | 28                                  | 5  | 31 | 1  | 34 | 0  | 37 | 1  | 40 | 5  | 0 | 44 | 0 | 47 | 0 | 50 | 0 | 53 | 0 | 57 | 16       |
| 15                                  | 27                                  | 38 | 30 | 32 | 33 | 29 | 36 | 28 | 39 | 30 | 0 | 43 | 0 | 46 | 0 | 49 | 0 | 52 | 0 | 56 | 15       |
| 16                                  | 27                                  | 10 | 30 | 2  | 32 | 57 | 35 | 54 | 38 | 54 | 0 | 42 | 0 | 46 | 0 | 48 | 0 | 52 | 0 | 55 | 14       |
| 17                                  | 26                                  | 42 | 29 | 32 | 32 | 25 | 35 | 20 | 38 | 18 | 0 | 42 | 0 | 45 | 0 | 48 | 0 | 51 | 0 | 54 | 13       |
| 18                                  | 26                                  | 14 | 29 | 2  | 31 | 53 | 34 | 46 | 37 | 42 | 0 | 41 | 0 | 44 | 0 | 47 | 0 | 50 | 0 | 53 | 12       |
| 19                                  | 25                                  | 46 | 28 | 32 | 31 | 20 | 34 | 11 | 37 | 6  | 0 | 40 | 0 | 43 | 0 | 46 | 0 | 50 | 0 | 53 | 11       |
| 20                                  | 25                                  | 18 | 28 | 1  | 30 | 47 | 33 | 36 | 36 | 29 | 0 | 40 | 0 | 43 | 0 | 45 | 0 | 49 | 0 | 52 | 10       |
| 21                                  | 24                                  | 50 | 27 | 30 | 30 | 14 | 33 | 1  | 35 | 52 | 0 | 39 | 0 | 42 | 0 | 45 | 0 | 48 | 0 | 51 | 9        |
| 22                                  | 24                                  | 21 | 27 | 0  | 29 | 41 | 32 | 26 | 35 | 15 | 0 | 39 | 0 | 41 | 0 | 44 | 0 | 47 | 0 | 50 | 8        |
| 23                                  | 23                                  | 53 | 26 | 29 | 29 | 8  | 31 | 51 | 34 | 37 | 0 | 38 | 0 | 40 | 0 | 43 | 0 | 46 | 0 | 49 | 7        |
| 24                                  | 23                                  | 24 | 25 | 58 | 28 | 35 | 31 | 15 | 33 | 59 | 0 | 37 | 0 | 39 | 0 | 42 | 0 | 45 | 0 | 48 | 6        |
| 25                                  | 22                                  | 56 | 25 | 27 | 28 | 2  | 30 | 40 | 33 | 21 | 0 | 37 | 0 | 39 | 0 | 42 | 0 | 45 | 0 | 48 | 5        |
| 26                                  | 22                                  | 27 | 24 | 56 | 27 | 28 | 30 | 4  | 32 | 43 | 0 | 36 | 0 | 38 | 0 | 41 | 0 | 44 | 0 | 47 | 4        |
| 27                                  | 21                                  | 59 | 24 | 25 | 26 | 55 | 29 | 28 | 32 | 4  | 0 | 35 | 0 | 37 | 0 | 40 | 0 | 43 | 0 | 46 | 3        |
| 28                                  | 21                                  | 30 | 23 | 54 | 26 | 21 | 28 | 52 | 31 | 26 | 0 | 35 | 0 | 36 | 0 | 40 | 0 | 42 | 0 | 45 | 2        |
| 29                                  | 21                                  | 1  | 23 | 22 | 25 | 48 | 28 | 16 | 30 | 47 | 0 | 34 | 0 | 35 | 0 | 39 | 0 | 42 | 0 | 44 | 1        |
| 30                                  | 20                                  | 32 | 22 | 51 | 25 | 14 | 27 | 39 | 30 | 8  | 0 | 33 | 0 | 35 | 0 | 38 | 0 | 41 | 0 | 43 | 3        |
| Subtrahe                            |                                     |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |          |
| conquata                            | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 | 5 | 10 | conquata |
| Distantia vera ☉ à ☿, vel ab eius ☉ |                                     |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |          |



# Ac Tab. Secundorum Mobilium.

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Composita & absoluta Luna.

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| Anom.   |   | 19 | 20 |
|---------|---|----|----|
| 1       | P | 1  | 1  |
| 2       | 1 | 5  | 30 |
| 2       | 1 | 5  | 29 |
| 1       | 1 | 4  | 28 |
| 1       | 1 | 4  | 27 |
| 0       | 1 | 3  | 26 |
| 0       | 1 | 3  | 25 |
| 59      | 1 | 2  | 24 |
| 59      | 1 | 2  | 23 |
| 58      | 1 | 1  | 22 |
| 57      | 1 | 0  | 21 |
| 57      | 1 | 0  | 20 |
| 56      | 0 | 59 | 19 |
| 55      | 0 | 58 | 18 |
| 54      | 0 | 58 | 17 |
| 53      | 0 | 57 | 16 |
| 52      | 0 | 56 | 15 |
| 52      | 0 | 55 | 14 |
| 51      | 0 | 54 | 13 |
| 50      | 0 | 53 | 12 |
| 50      | 0 | 53 | 11 |
| 49      | 0 | 52 | 10 |
| 48      | 0 | 51 | 9  |
| 47      | 0 | 50 | 8  |
| 46      | 0 | 49 | 7  |
| 45      | 0 | 48 | 6  |
| 45      | 0 | 48 | 5  |
| 44      | 0 | 47 | 4  |
| 43      | 0 | 46 | 3  |
| 42      | 0 | 45 | 2  |
| 42      | 0 | 44 | 1  |
| 41      | 0 | 43 | 3  |
| congrua |   | 11 | 10 |

| Anom.   |   | Distantia vera ☿ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    | Anom.   |   |
|---------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|---|----|---------|---|
|         |   | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 20 |         |   |
|         |   | Adde                                |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |         |   |
|         |   | i                                   | u  | i  | u  | i  | u  | i  | u  | i  | u  | P | i  | P | i  | P | i  | P | i  | P | i  | P       | i |
| 0       | 1 | 20                                  | 32 | 22 | 51 | 25 | 14 | 27 | 39 | 30 | 8  | 0 | 33 | 0 | 35 | 0 | 38 | 0 | 41 | 0 | 43 | 30      |   |
| 1       | 1 | 20                                  | 3  | 22 | 19 | 24 | 40 | 27 | 2  | 29 | 29 | 0 | 32 | 0 | 34 | 0 | 37 | 0 | 40 | 0 | 43 | 29      |   |
| 2       | 1 | 19                                  | 33 | 21 | 47 | 24 | 5  | 26 | 25 | 28 | 50 | 0 | 31 | 0 | 33 | 0 | 37 | 0 | 40 | 0 | 42 | 28      |   |
| 3       | 1 | 19                                  | 4  | 21 | 15 | 23 | 31 | 25 | 48 | 28 | 11 | 0 | 30 | 0 | 33 | 0 | 36 | 0 | 39 | 0 | 41 | 27      |   |
| 4       | 1 | 18                                  | 34 | 20 | 43 | 22 | 56 | 25 | 12 | 27 | 32 | 0 | 30 | 0 | 32 | 0 | 35 | 0 | 38 | 0 | 40 | 26      |   |
| 5       | 1 | 18                                  | 5  | 20 | 11 | 22 | 22 | 24 | 35 | 26 | 52 | 0 | 29 | 0 | 31 | 0 | 34 | 0 | 37 | 0 | 39 | 25      |   |
| 6       | 1 | 17                                  | 36 | 19 | 39 | 21 | 47 | 23 | 58 | 26 | 12 | 0 | 28 | 0 | 31 | 0 | 33 | 0 | 36 | 0 | 38 | 24      |   |
| 7       | 1 | 17                                  | 6  | 19 | 7  | 21 | 12 | 23 | 21 | 25 | 32 | 0 | 27 | 0 | 30 | 0 | 33 | 0 | 36 | 0 | 38 | 23      |   |
| 8       | 1 | 16                                  | 37 | 18 | 35 | 20 | 37 | 22 | 44 | 24 | 52 | 0 | 27 | 0 | 29 | 0 | 32 | 0 | 35 | 0 | 37 | 22      |   |
| 9       | 1 | 16                                  | 8  | 18 | 3  | 20 | 3  | 22 | 6  | 24 | 13 | 0 | 26 | 0 | 29 | 0 | 31 | 0 | 34 | 0 | 36 | 21      |   |
| 10      | 1 | 15                                  | 38 | 17 | 31 | 19 | 28 | 21 | 29 | 23 | 33 | 0 | 25 | 0 | 28 | 0 | 30 | 0 | 33 | 0 | 35 | 20      |   |
| 11      | 1 | 15                                  | 9  | 16 | 59 | 18 | 54 | 20 | 52 | 22 | 53 | 0 | 24 | 0 | 27 | 0 | 30 | 0 | 32 | 0 | 34 | 19      |   |
| 12      | 1 | 14                                  | 40 | 16 | 28 | 18 | 19 | 20 | 15 | 22 | 14 | 0 | 24 | 0 | 26 | 0 | 29 | 0 | 31 | 0 | 33 | 18      |   |
| 13      | 1 | 14                                  | 11 | 15 | 56 | 17 | 45 | 19 | 38 | 21 | 34 | 0 | 23 | 0 | 26 | 0 | 28 | 0 | 31 | 0 | 32 | 17      |   |
| 14      | 1 | 13                                  | 42 | 15 | 24 | 17 | 10 | 19 | 1  | 20 | 54 | 0 | 22 | 0 | 25 | 0 | 27 | 0 | 30 | 0 | 31 | 16      |   |
| 15      | 1 | 13                                  | 14 | 14 | 53 | 16 | 36 | 18 | 24 | 20 | 15 | 0 | 22 | 0 | 24 | 0 | 27 | 0 | 29 | 0 | 30 | 15      |   |
| 16      | 1 | 12                                  | 45 | 14 | 21 | 16 | 1  | 17 | 47 | 19 | 35 | 0 | 21 | 0 | 23 | 0 | 26 | 0 | 28 | 0 | 30 | 14      |   |
| 17      | 1 | 12                                  | 16 | 13 | 49 | 15 | 26 | 17 | 10 | 18 | 56 | 0 | 20 | 0 | 23 | 0 | 25 | 0 | 27 | 0 | 29 | 13      |   |
| 18      | 1 | 11                                  | 47 | 13 | 17 | 14 | 52 | 16 | 33 | 18 | 16 | 0 | 20 | 0 | 22 | 0 | 24 | 0 | 26 | 0 | 28 | 12      |   |
| 19      | 1 | 11                                  | 18 | 12 | 46 | 14 | 18 | 15 | 56 | 17 | 37 | 0 | 19 | 1 | 21 | 0 | 24 | 0 | 26 | 0 | 27 | 11      |   |
| 20      | 1 | 10                                  | 49 | 12 | 14 | 13 | 44 | 15 | 19 | 16 | 58 | 0 | 18 | 0 | 20 | 0 | 23 | 0 | 25 | 0 | 26 | 10      |   |
| 21      | 1 | 10                                  | 20 | 11 | 43 | 13 | 11 | 14 | 43 | 16 | 19 | 0 | 18 | 0 | 20 | 0 | 22 | 0 | 24 | 0 | 25 | 9       |   |
| 22      | 1 | 9                                   | 52 | 11 | 12 | 12 | 37 | 14 | 7  | 15 | 40 | 0 | 17 | 0 | 19 | 0 | 21 | 0 | 23 | 0 | 24 | 8       |   |
| 23      | 1 | 9                                   | 23 | 10 | 41 | 12 | 4  | 13 | 30 | 15 | 1  | 0 | 16 | 0 | 18 | 0 | 20 | 0 | 22 | 0 | 23 | 7       |   |
| 24      | 1 | 8                                   | 55 | 10 | 11 | 11 | 31 | 12 | 54 | 14 | 22 | 0 | 16 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 6       |   |
| 25      | 1 | 8                                   | 27 | 9  | 40 | 10 | 57 | 12 | 18 | 13 | 43 | 0 | 15 | 0 | 17 | 0 | 19 | 0 | 21 | 0 | 22 | 5       |   |
| 26      | 1 | 7                                   | 59 | 9  | 9  | 10 | 24 | 11 | 42 | 13 | 5  | 0 | 14 | 0 | 16 | 0 | 18 | 0 | 20 | 0 | 21 | 4       |   |
| 27      | 1 | 7                                   | 31 | 8  | 39 | 9  | 50 | 11 | 6  | 12 | 26 | 0 | 14 | 0 | 16 | 0 | 17 | 0 | 19 | 0 | 20 | 3       |   |
| 28      | 1 | 7                                   | 3  | 8  | 8  | 9  | 17 | 10 | 30 | 11 | 48 | 0 | 13 | 0 | 15 | 0 | 16 | 0 | 18 | 0 | 19 | 2       |   |
| 29      | 1 | 6                                   | 36 | 7  | 37 | 8  | 43 | 9  | 54 | 11 | 9  | 0 | 12 | 0 | 14 | 0 | 15 | 0 | 17 | 0 | 18 | 1       |   |
| 30      | 1 | 6                                   | 8  | 7  | 7  | 8  | 10 | 9  | 18 | 10 | 31 | 0 | 12 | 0 | 13 | 0 | 14 | 0 | 16 | 0 | 17 | 0       |   |
|         |   | Subtrahe                            |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |         |   |
| congrua |   | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 | 5 | 10 | congrua |   |
|         |   | Distantia vera ☿ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |   |    |         |   |



Supplementum Ephemeridum,

*Tabula Aequationis Eccentricitatis*

| Anom.                               | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.     |
|-------------------------------------|-------------------------------------|----|---|----|---|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|
|                                     | o                                   | 11 | o | 12 | o | 13 | o | 14 | o  | 15 | o  | 16 | o  | 17 | o  | 18 | o  | 19 | o  | 20 |           |
|                                     | Adde                                |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |           |
|                                     | i                                   | ii | i | ii | i | ii | i | ii | i  | ii | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  |           |
| 10                                  | 6                                   | 8  | 7 | 7  | 8 | 10 | 9 | 18 | 10 | 31 | o  | 12 | o  | 13 | o  | 14 | o  | 16 | o  | 17 | 30        |
| 1                                   | 5                                   | 46 | 6 | 37 | 7 | 37 | 8 | 43 | 9  | 53 | o  | 11 | o  | 12 | o  | 13 | o  | 15 | o  | 16 | 29        |
| 2                                   | 5                                   | 13 | 6 | 7  | 7 | 5  | 8 | 8  | 9  | 15 | o  | 10 | o  | 12 | o  | 13 | o  | 15 | o  | 16 | 28        |
| 3                                   | 4                                   | 46 | 5 | 37 | 6 | 33 | 7 | 33 | 8  | 38 | o  | 10 | o  | 11 | o  | 12 | o  | 14 | o  | 15 | 27        |
| 4                                   | 4                                   | 19 | 5 | 8  | 6 | 1  | 6 | 59 | 1  | o  | 9  | o  | 10 | o  | 11 | o  | 13 | o  | 14 | 26 |           |
| 5                                   | 3                                   | 52 | 4 | 39 | 5 | 30 | 6 | 25 | 7  | 24 | o  | 8  | o  | 10 | o  | 11 | o  | 12 | o  | 13 | 25        |
| 6                                   | 3                                   | 25 | 4 | 10 | 4 | 58 | 5 | 51 | 6  | 47 | o  | 8  | o  | 9  | o  | 10 | o  | 11 | o  | 12 | 24        |
| 7                                   | 2                                   | 59 | 3 | 41 | 4 | 27 | 5 | 17 | 6  | 11 | o  | 7  | o  | 8  | o  | 9  | o  | 10 | o  | 11 | 23        |
| 8                                   | 2                                   | 33 | 3 | 12 | 3 | 56 | 4 | 44 | 5  | 35 | o  | 6  | o  | 8  | o  | 9  | o  | 10 | o  | 11 | 22        |
| 9                                   | 2                                   | 7  | 2 | 44 | 3 | 25 | 4 | 11 | 4  | 59 | o  | 6  | o  | 7  | o  | 8  | o  | 9  | o  | 10 | 21        |
| 10                                  | 1                                   | 42 | 2 | 16 | 2 | 55 | 3 | 38 | 4  | 23 | o  | 5  | o  | 6  | o  | 7  | o  | 8  | o  | 9  | 20        |
| 11                                  | 1                                   | 17 | 1 | 48 | 2 | 25 | 3 | 5  | 3  | 48 | o  | 4  | o  | 6  | o  | 7  | o  | 7  | o  | 8  | 19        |
| 12                                  | o                                   | 52 | 1 | 21 | 1 | 55 | 2 | 33 | 3  | 13 | o  | 4  | o  | 5  | o  | 6  | o  | 7  | o  | 8  | 18        |
| 13                                  | o                                   | 27 | o | 54 | 1 | 25 | 2 | 12 | 39 | o  | 3  | o  | 4  | o  | 5  | o  | 6  | o  | 7  | 17 |           |
| 14                                  | o                                   | S  | o | 27 | o | 56 | 1 | 29 | 2  | 5  | o  | 2  | o  | 4  | o  | 5  | o  | 5  | o  | 6  | 16        |
| 15                                  | o                                   | 21 | o | S  | o | 27 | o | 58 | 1  | 31 | o  | 2  | o  | 3  | o  | 4  | o  | 4  | o  | 5  | 15        |
| 16                                  | o                                   | 45 | o | 26 | o | S  | 2 | o  | 27 | o  | 57 | o  | 1  | o  | 2  | o  | 3  | o  | 4  | o  | 14        |
| 17                                  | 1                                   | 8  | o | 51 | o | 30 | o | S  | 4  | o  | 24 | o  | o  | o  | 2  | o  | 2  | o  | 3  | o  | 13        |
| 18                                  | 1                                   | 31 | 1 | 16 | o | 58 | o | 35 | o  | 9  | o  | S  | o  | o  | 1  | o  | 1  | o  | 2  | o  | 12        |
| 19                                  | 1                                   | 53 | 1 | 41 | 1 | 25 | 1 | 5  | o  | 41 | o  | o  | o  | 1  | o  | 1  | o  | 1  | o  | 2  | 11        |
| 20                                  | 2                                   | 15 | 2 | 5  | 1 | 52 | 1 | 35 | 1  | 13 | o  | 1  | o  | o  | S  | o  | o  | o  | o  | 1  | 10        |
| 21                                  | 2                                   | 37 | 2 | 30 | 2 | 19 | 2 | 4  | 1  | 45 | o  | 1  | o  | S  | o  | o  | S  | o  | o  | 1  | 9         |
| 22                                  | 2                                   | 59 | 2 | 54 | 2 | 45 | 2 | 33 | 2  | 16 | o  | 2  | o  | 1  | o  | 1  | o  | 1  | o  | S  | 8         |
| 23                                  | 3                                   | 21 | 3 | 18 | 3 | 11 | 3 | 1  | 2  | 47 | o  | 2  | o  | 1  | o  | 1  | o  | 1  | o  | o  | 7         |
| 24                                  | 3                                   | 42 | 3 | 42 | 3 | 37 | 3 | 29 | 3  | 18 | o  | 3  | o  | 2  | o  | 2  | o  | 2  | o  | 1  | 6         |
| 25                                  | 4                                   | 3  | 4 | 5  | 4 | 2  | 3 | 57 | 3  | 48 | o  | 4  | o  | 3  | o  | 3  | o  | 3  | o  | 2  | 5         |
| 26                                  | 4                                   | 23 | 4 | 28 | 4 | 27 | 4 | 24 | 4  | 18 | o  | 4  | o  | 3  | o  | 3  | o  | 3  | o  | 2  | 4         |
| 27                                  | 4                                   | 43 | 4 | 50 | 4 | 52 | 4 | 51 | 4  | 47 | o  | 5  | o  | 4  | o  | 4  | o  | 4  | o  | 3  | 3         |
| 28                                  | 5                                   | 3  | 5 | 12 | 5 | 16 | 5 | 17 | 5  | 16 | o  | 5  | o  | 5  | o  | 5  | o  | 5  | o  | 4  | 2         |
| 29                                  | 5                                   | 23 | 5 | 34 | 5 | 40 | 5 | 43 | 5  | 44 | o  | 6  | o  | 5  | o  | 5  | o  | 5  | o  | 4  | 1         |
| 30                                  | 5                                   | 42 | 5 | 55 | 6 | 41 | 6 | 9  | 6  | 12 | o  | 6  | o  | 6  | o  | 6  | o  | 5  | o  | 5  | I         |
| coarquata                           | Adde                                |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    | coarquata |
|                                     | 5                                   | 19 | 5 | 18 | 5 | 17 | 5 | 16 | 5  | 15 | 5  | 14 | 5  | 13 | 5  | 12 | 5  | 11 | 5  | 10 |           |
| Distantia vera ☉ à ☿, vel ab eius ♀ |                                     |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |           |



# Ac Tab. Secundorum Mobilium.

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Composita & absoluta Luna.

| 19 | 0 | 20 | Anom.    |
|----|---|----|----------|
| 16 | 0 | 17 | 30       |
| 15 | 0 | 16 | 29       |
| 15 | 0 | 16 | 28       |
| 14 | 0 | 15 | 27       |
| 13 | 0 | 14 | 26       |
| 12 | 0 | 13 | 25       |
| 11 | 0 | 12 | 24       |
| 10 | 0 | 11 | 23       |
| 10 | 0 | 11 | 22       |
| 9  | 0 | 10 | 21       |
| 8  | 0 | 9  | 20       |
| 7  | 0 | 8  | 19       |
| 7  | 0 | 8  | 18       |
| 6  | 0 | 7  | 17       |
| 5  | 0 | 6  | 16       |
| 4  | 0 | 5  | 15       |
| 4  | 0 | 5  | 14       |
| 3  | 0 | 4  | 13       |
| 2  | 0 | 3  | 12       |
| 1  | 0 | 2  | 11       |
| S  | 0 | 1  | 10       |
| 0  | 0 | 1  | 9        |
| 1  | 0 | 0  | 8        |
| 1  | 0 | 0  | 7        |
| 2  | 0 | 1  | 6        |
| 3  | 0 | 2  | 5        |
| 3  | 0 | 2  | 4        |
| 4  | 0 | 3  | 3        |
| 4  | 0 | 4  | 2        |
| 5  | 0 | 4  | 1        |
| 5  | 0 | 5  | I        |
| 11 | 5 | 10 | conquata |

| Anom.    | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    | Anom.    |    |    |
|----------|-------------------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|----------|----|----|
|          | 0                                   | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 19 |          | 0  | 20 |
|          | Subtrahe                            |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |          |    |    |
|          | i                                   | u  | i  | u  | i  | u  | i  | u  | i  | P  | i | P  | i | P  | i | P  | i | P  | i        | P  |    |
| 11       | 5                                   | 42 | 5  | 55 | 6  | 4  | 6  | 9  | 6  | 12 | 0 | 6  | 0 | 6  | 0 | 6  | 0 | 5  | 0        | 5  | 30 |
| 1        | 6                                   | 1  | 6  | 16 | 6  | 27 | 6  | 34 | 6  | 39 | 0 | 7  | 0 | 6  | 0 | 6  | 0 | 6  | 0        | 6  | 29 |
| 2        | 6                                   | 19 | 6  | 36 | 6  | 50 | 6  | 59 | 7  | 6  | 0 | 7  | 0 | 7  | 0 | 7  | 0 | 6  | 0        | 6  | 28 |
| 3        | 6                                   | 37 | 6  | 56 | 7  | 12 | 7  | 23 | 7  | 32 | 0 | 8  | 0 | 7  | 0 | 7  | 0 | 7  | 0        | 7  | 27 |
| 4        | 6                                   | 54 | 7  | 15 | 7  | 33 | 7  | 47 | 7  | 58 | 0 | 8  | 0 | 8  | 0 | 8  | 0 | 8  | 0        | 8  | 26 |
| 5        | 7                                   | 11 | 7  | 34 | 7  | 54 | 8  | 11 | 8  | 24 | 0 | 9  | 0 | 8  | 0 | 8  | 0 | 8  | 0        | 8  | 25 |
| 6        | 7                                   | 28 | 7  | 53 | 8  | 14 | 8  | 34 | 8  | 49 | 0 | 9  | 0 | 9  | 0 | 9  | 0 | 9  | 0        | 9  | 24 |
| 7        | 7                                   | 44 | 8  | 11 | 8  | 34 | 8  | 56 | 9  | 14 | 0 | 10 | 0 | 9  | 0 | 9  | 0 | 9  | 0        | 10 | 23 |
| 8        | 8                                   | 0  | 8  | 29 | 8  | 54 | 9  | 18 | 9  | 38 | 0 | 10 | 0 | 10 | 0 | 10 | 0 | 10 | 0        | 10 | 22 |
| 9        | 8                                   | 16 | 8  | 46 | 9  | 13 | 9  | 39 | 10 | 1  | 0 | 11 | 0 | 10 | 0 | 10 | 0 | 10 | 0        | 11 | 21 |
| 10       | 8                                   | 32 | 9  | 3  | 9  | 32 | 9  | 59 | 10 | 24 | 0 | 11 | 0 | 11 | 0 | 11 | 0 | 11 | 0        | 12 | 20 |
| 11       | 8                                   | 47 | 9  | 19 | 9  | 50 | 10 | 19 | 10 | 46 | 0 | 12 | 0 | 11 | 0 | 11 | 0 | 11 | 0        | 12 | 19 |
| 12       | 9                                   | 1  | 9  | 35 | 10 | 8  | 10 | 39 | 11 | 8  | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 12 | 0        | 13 | 18 |
| 13       | 9                                   | 15 | 9  | 51 | 10 | 25 | 10 | 58 | 11 | 29 | 0 | 13 | 0 | 12 | 0 | 12 | 0 | 12 | 0        | 14 | 17 |
| 14       | 9                                   | 28 | 10 | 6  | 10 | 42 | 11 | 17 | 11 | 50 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0        | 14 | 16 |
| 15       | 9                                   | 41 | 10 | 21 | 10 | 59 | 11 | 35 | 12 | 10 | 0 | 13 | 0 | 13 | 0 | 13 | 0 | 13 | 0        | 15 | 15 |
| 16       | 9                                   | 54 | 10 | 35 | 11 | 15 | 11 | 53 | 12 | 30 | 0 | 14 | 0 | 13 | 0 | 14 | 0 | 14 | 0        | 15 | 14 |
| 17       | 10                                  | 6  | 10 | 49 | 11 | 31 | 12 | 10 | 12 | 49 | 0 | 14 | 0 | 14 | 0 | 14 | 0 | 14 | 0        | 16 | 13 |
| 18       | 10                                  | 18 | 11 | 2  | 11 | 46 | 12 | 27 | 13 | 7  | 0 | 14 | 0 | 14 | 0 | 15 | 0 | 15 | 0        | 16 | 12 |
| 19       | 10                                  | 29 | 11 | 15 | 12 | 0  | 12 | 43 | 13 | 25 | 0 | 14 | 0 | 14 | 0 | 15 | 0 | 15 | 0        | 16 | 11 |
| 20       | 10                                  | 40 | 11 | 28 | 12 | 14 | 12 | 59 | 13 | 42 | 0 | 15 | 0 | 15 | 0 | 16 | 0 | 16 | 0        | 17 | 10 |
| 21       | 10                                  | 50 | 11 | 40 | 12 | 27 | 13 | 14 | 13 | 59 | 0 | 15 | 0 | 15 | 0 | 16 | 0 | 16 | 0        | 17 | 9  |
| 22       | 11                                  | 0  | 11 | 51 | 12 | 40 | 13 | 28 | 14 | 15 | 0 | 15 | 0 | 15 | 0 | 16 | 0 | 16 | 0        | 17 | 8  |
| 23       | 11                                  | 9  | 12 | 2  | 12 | 52 | 13 | 42 | 14 | 30 | 0 | 16 | 0 | 16 | 0 | 17 | 0 | 17 | 0        | 18 | 7  |
| 24       | 11                                  | 18 | 12 | 12 | 13 | 4  | 13 | 55 | 14 | 45 | 0 | 16 | 0 | 16 | 0 | 17 | 0 | 17 | 0        | 18 | 6  |
| 25       | 11                                  | 27 | 12 | 22 | 13 | 15 | 14 | 8  | 14 | 59 | 0 | 16 | 0 | 16 | 0 | 17 | 0 | 17 | 0        | 18 | 5  |
| 26       | 11                                  | 35 | 12 | 31 | 13 | 26 | 14 | 20 | 15 | 12 | 0 | 16 | 0 | 17 | 0 | 18 | 0 | 18 | 0        | 19 | 4  |
| 27       | 11                                  | 42 | 12 | 40 | 13 | 36 | 14 | 31 | 15 | 25 | 0 | 17 | 0 | 17 | 0 | 18 | 0 | 18 | 0        | 19 | 3  |
| 28       | 11                                  | 49 | 12 | 48 | 13 | 45 | 14 | 42 | 15 | 37 | 0 | 17 | 0 | 17 | 0 | 18 | 0 | 18 | 0        | 19 | 2  |
| 29       | 11                                  | 55 | 12 | 55 | 13 | 54 | 14 | 52 | 15 | 48 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 19 | 0        | 20 | 1  |
| 30       | 12                                  | 1  | 13 | 2  | 14 | 2  | 15 | 1  | 15 | 59 | 0 | 17 | 0 | 18 | 0 | 19 | 0 | 19 | 0        | 20 | 0  |
| conquata | Adde                                |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    | conquata |    |    |
|          | 5                                   | 19 | 5  | 18 | 5  | 17 | 5  | 16 | 5  | 15 | 5 | 14 | 5 | 13 | 5 | 12 | 5 | 11 | 5        | 10 |    |
|          | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |          |    |    |



## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| Anom.    | Distantia vera ☉ à ☼, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |   |      |   |    |   |    |   |    |   |    | Anom. |
|----------|-------------------------------------|----|---|----|---|----|---|----|---|----|---|------|---|----|---|----|---|----|---|----|-------|
|          | 0                                   | 21 | 0 | 22 | 0 | 23 | 0 | 24 | 0 | 25 | 0 | 26   | 0 | 27 | 0 | 28 | 0 | 29 | 1 | 0  |       |
|          | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |      |   |    |   |    |   |    |   |    |       |
|          | P                                   | i  | P | i  | P | i  | P | i  | P | i  | P | i    | P | i  | P | i  | P | i  | P | i  |       |
| 0        | 0                                   | 21 | 0 | 22 | 0 | 22 | 0 | 23 | 0 | 24 | 0 | 24   | 0 | 25 | 0 | 26 | 0 | 26 | 0 | 27 |       |
| 3        | 0                                   | 22 | 0 | 23 | 0 | 24 | 0 | 25 | 0 | 25 | 0 | 26   | 0 | 27 | 0 | 28 | 0 | 28 | 0 | 29 |       |
| 6        | 0                                   | 23 | 0 | 24 | 0 | 25 | 0 | 26 | 0 | 26 | 0 | 27   | 0 | 28 | 0 | 29 | 0 | 30 | 0 | 31 |       |
| 9        | 0                                   | 24 | 0 | 25 | 0 | 26 | 0 | 27 | 0 | 27 | 0 | 28   | 0 | 30 | 0 | 30 | 0 | 32 | 0 | 33 |       |
| 12       | 0                                   | 24 | 0 | 25 | 0 | 26 | 0 | 28 | 0 | 28 | 0 | 29   | 0 | 31 | 0 | 31 | 0 | 33 | 0 | 34 |       |
| 15       | 0                                   | 25 | 0 | 25 | 0 | 27 | 0 | 29 | 0 | 29 | 0 | 30   | 0 | 32 | 0 | 32 | 0 | 34 | 0 | 35 |       |
| 18       | 0                                   | 25 | 0 | 26 | 0 | 27 | 0 | 29 | 0 | 30 | 0 | 31   | 0 | 32 | 0 | 33 | 0 | 35 | 0 | 36 |       |
| 21       | 0                                   | 25 | 0 | 26 | 0 | 27 | 0 | 29 | 0 | 30 | 0 | 31   | 0 | 33 | 0 | 34 | 0 | 35 | 0 | 37 |       |
| 24       | 0                                   | 25 | 0 | 26 | 0 | 27 | 0 | 29 | 0 | 30 | 0 | 31   | 0 | 33 | 0 | 34 | 0 | 35 | 0 | 37 |       |
| 27       | 0                                   | 25 | 0 | 26 | 0 | 28 | 0 | 29 | 0 | 31 | 0 | 32   | 0 | 33 | 0 | 35 | 0 | 36 | 0 | 38 |       |
| 1        | 0                                   | 25 | 0 | 26 | 0 | 28 | 0 | 29 | 0 | 31 | 0 | 32   | 0 | 33 | 0 | 35 | 0 | 36 | 0 | 38 |       |
| 3        | 0                                   | 24 | 0 | 25 | 0 | 28 | 0 | 28 | 0 | 31 | 0 | 32   | 0 | 33 | 0 | 35 | 0 | 36 | 0 | 38 |       |
| 6        | 0                                   | 24 | 0 | 25 | 0 | 27 | 0 | 28 | 0 | 30 | 0 | 31   | 0 | 33 | 0 | 34 | 0 | 36 | 0 | 38 |       |
| 9        | 0                                   | 23 | 0 | 24 | 0 | 26 | 0 | 28 | 0 | 29 | 0 | 31   | 0 | 32 | 0 | 34 | 0 | 35 | 0 | 37 |       |
| 12       | 0                                   | 22 | 0 | 23 | 0 | 25 | 0 | 27 | 0 | 28 | 0 | 30   | 0 | 32 | 0 | 33 | 0 | 35 | 0 | 37 |       |
| 15       | 0                                   | 21 | 0 | 23 | 0 | 24 | 0 | 26 | 0 | 27 | 0 | 29   | 0 | 31 | 0 | 32 | 0 | 34 | 0 | 36 |       |
| 18       | 0                                   | 20 | 0 | 22 | 0 | 23 | 0 | 25 | 0 | 26 | 0 | 28   | 0 | 30 | 0 | 31 | 0 | 33 | 0 | 35 |       |
| 21       | 0                                   | 19 | 0 | 21 | 0 | 22 | 0 | 24 | 0 | 25 | 0 | 27   | 0 | 29 | 0 | 30 | 0 | 32 | 0 | 34 |       |
| 24       | 0                                   | 17 | 0 | 19 | 0 | 20 | 0 | 22 | 0 | 23 | 0 | 25   | 0 | 27 | 0 | 29 | 0 | 31 | 0 | 33 |       |
| 27       | 0                                   | 16 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 23   | 0 | 26 | 0 | 27 | 0 | 29 | 0 | 31 |       |
| 2        | 0                                   | 14 | 0 | 16 | 0 | 17 | 0 | 19 | 0 | 20 | 0 | 22   | 0 | 24 | 0 | 25 | 0 | 27 | 0 | 29 |       |
| 3        | 0                                   | 13 | 0 | 14 | 0 | 16 | 0 | 17 | 0 | 19 | 0 | 20   | 0 | 22 | 0 | 23 | 0 | 25 | 0 | 27 |       |
| 6        | 0                                   | 11 | 0 | 12 | 0 | 14 | 0 | 15 | 0 | 17 | 0 | 18   | 0 | 20 | 0 | 21 | 0 | 23 | 0 | 25 |       |
| 9        | 0                                   | 9  | 0 | 10 | 0 | 12 | 0 | 13 | 0 | 15 | 0 | 16   | 0 | 17 | 0 | 19 | 0 | 21 | 0 | 23 |       |
| 12       | 0                                   | 7  | 0 | 8  | 0 | 10 | 0 | 11 | 0 | 13 | 0 | 14   | 0 | 15 | 0 | 17 | 0 | 19 | 0 | 21 |       |
| 15       | 0                                   | 5  | 0 | 6  | 0 | 7  | 0 | 9  | 0 | 10 | 0 | 12   | 0 | 12 | 0 | 14 | 0 | 16 | 0 | 18 |       |
| 18       | 0                                   | 2  | 0 | 3  | 0 | 4  | 0 | 6  | 0 | 7  | 0 | 9    | 0 | 10 | 0 | 12 | 0 | 13 | 0 | 15 |       |
| 21       | 0                                   | A  | 0 | A  | 0 | A  | 1 | 3  | 0 | 5  | 0 | 6    | 0 | 7  | 0 | 9  | 0 | 11 | 0 | 13 |       |
| 24       | 0                                   | 3  | 0 | 2  | 0 | A  | 1 | A  | 1 | 2  | 0 | 3    | 0 | 5  | 0 | 6  | 0 | 8  | 0 | 10 |       |
| 27       | 0                                   | 5  | 0 | 5  | 0 | 4  | 0 | 2  | 0 | A  | 1 | A    | 0 | 2  | 0 | 3  | 0 | 5  | 0 | 7  |       |
| 3        | 0                                   | 8  | 0 | 7  | 0 | 6  | 0 | 5  | 0 | 4  | 0 | 3    | 0 | A  | 1 | 0  | 0 | 1  | 0 | 3  |       |
|          | Subtrahe                            |    |   |    |   |    |   |    |   |    |   | Adde |   |    |   |    |   |    |   |    |       |
| corquata | 5                                   | 9  | 5 | 8  | 5 | 7  | 5 | 6  | 5 | 5  | 5 | 4    | 5 | 3  | 5 | 2  | 5 | 1  | 5 | 0  |       |
|          | Distantia vera ☉ à ☼, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |   |      |   |    |   |    |   |    |   |    |       |



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|      | P  | I | P  | I | Anom.  |
|------|----|---|----|---|--------|
| 0    | 26 | 0 | 27 |   | 12     |
| 0    | 28 | 0 | 29 |   | 27     |
| 0    | 30 | 0 | 31 |   | 24     |
| 0    | 32 | 0 | 33 |   | 21     |
| 0    | 33 | 0 | 34 |   | 18     |
| 0    | 34 | 0 | 35 |   | 15     |
| 0    | 35 | 0 | 36 |   | 12     |
| 0    | 35 | 0 | 37 |   | 9      |
| 0    | 35 | 0 | 37 |   | 6      |
| 0    | 36 | 0 | 38 |   | 3      |
| 0    | 36 | 0 | 38 |   | 11     |
| 0    | 36 | 0 | 38 |   | 27     |
| 0    | 36 | 0 | 38 |   | 24     |
| 0    | 35 | 0 | 37 |   | 21     |
| 0    | 35 | 0 | 37 |   | 18     |
| 0    | 34 | 0 | 36 |   | 15     |
| 0    | 33 | 0 | 35 |   | 12     |
| 0    | 32 | 0 | 34 |   | 9      |
| 0    | 31 | 0 | 33 |   | 6      |
| 0    | 29 | 0 | 31 |   | 3      |
| 0    | 27 | 0 | 29 |   | 10     |
| 0    | 25 | 0 | 27 |   | 27     |
| 0    | 23 | 0 | 25 |   | 24     |
| 0    | 21 | 0 | 23 |   | 21     |
| 0    | 19 | 0 | 21 |   | 18     |
| 0    | 16 | 0 | 18 |   | 15     |
| 0    | 13 | 0 | 15 |   | 12     |
| 0    | 11 | 0 | 13 |   | 9      |
| 0    | 8  | 0 | 10 |   | 6      |
| 0    | 5  | 0 | 7  |   | 3      |
| 0    | 1  | 0 | 3  |   | 9      |
| Adde |    |   |    |   | cocqua |
| ;    | 15 | 0 |    |   |        |

| Anom.                               | Distantia vera ☉ à ☿, vel ab eius ♀            |    |    |    |    |    |    |    |    |          |    |    |    |    |    |    |    |    | Anom. |    |    |    |    |
|-------------------------------------|--|----|----|----|----|----|----|----|----|----------|----|----|----|----|----|----|----|----|-------|----|----|----|----|
|                                     | 21 0 22 0 23 0 24 0 25 0 26 0 27 0 28 0 29 1 0 |    |    |    |    |    |    |    |    |          |    |    |    |    |    |    |    |    |       |    |    |    |    |
|                                     | Addē   |    |    |    |    |    |    |    |    | Subtrahe |    |    |    |    |    |    |    |    |       |    |    |    |    |
|                                     | P  | /  | P  | /  | P  | /  | P  | /  | P  | /        | P  | /  | P  | /  | P  | /  | P  | /  |       |    |    |    |    |
| 3                                   | 0  |    | 8  | 0  | 7  | 0  | 6  | 0  | 5  | 0        | 4  | 0  | 3  | 0  | 1  | 0  | 0  | 0  | 1     | 0  | 3  | 9  |    |
| 3                                   | 0  |    | 11 | 0  | 10 | 0  | 9  | 0  | 8  | 0        | 7  | 0  | 6  | 0  | 5  | 0  | 4  | 0  | A     | 3  | 0  | 27 |    |
| 6                                   | 0  |    | 13 | 0  | 12 | 0  | 12 | 0  | 11 | 0        | 10 | 0  | 9  | 0  | 8  | 0  | 7  | 0  | 6     | 0  | A  | 4  | 24 |
| 9                                   | 0  |    | 16 | 0  | 15 | 0  | 15 | 0  | 14 | 0        | 13 | 0  | 13 | 0  | 12 | 0  | 11 | 0  | 10    | 0  | 7  | 21 |    |
| 12                                  | 0  |    | 18 | 0  | 18 | 0  | 18 | 0  | 17 | 0        | 16 | 0  | 16 | 0  | 15 | 0  | 14 | 0  | 13    | 0  | 11 | 18 |    |
| 15                                  | 0  |    | 21 | 0  | 21 | 0  | 21 | 0  | 21 | 0        | 20 | 0  | 20 | 0  | 19 | 0  | 18 | 0  | 17    | 0  | 15 | 15 |    |
| 18                                  | 0  |    | 24 | 0  | 24 | 0  | 24 | 0  | 24 | 0        | 23 | 0  | 23 | 0  | 22 | 0  | 21 | 0  | 20    | 0  | 19 | 12 |    |
| 21                                  | 0  |    | 27 | 0  | 27 | 0  | 27 | 0  | 27 | 0        | 26 | 0  | 26 | 0  | 25 | 0  | 25 | 0  | 24    | 0  | 23 | 9  |    |
| 24                                  | 0  |    | 30 | 0  | 30 | 0  | 30 | 0  | 30 | 0        | 30 | 0  | 29 | 0  | 29 | 0  | 28 | 0  | 28    | 0  | 27 | 6  |    |
| 27                                  | 0  |    | 33 | 0  | 33 | 0  | 33 | 0  | 34 | 0        | 33 | 0  | 33 | 0  | 32 | 0  | 32 | 0  | 31    | 0  | 31 | 3  |    |
| 4                                   | 0  |    | 36 | 0  | 36 | 0  | 36 | 0  | 37 | 0        | 37 | 0  | 36 | 0  | 36 | 0  | 36 | 0  | 35    | 0  | 35 | 8  |    |
| 3                                   | 0  |    | 39 | 0  | 39 | 0  | 39 | 0  | 40 | 0        | 40 | 0  | 40 | 0  | 40 | 0  | 40 | 0  | 39    | 0  | 39 | 27 |    |
| 6                                   | 0  |    | 41 | 0  | 42 | 0  | 42 | 0  | 43 | 0        | 43 | 0  | 43 | 0  | 44 | 0  | 44 | 0  | 43    | 0  | 43 | 24 |    |
| 9                                   | 0  |    | 44 | 0  | 45 | 0  | 45 | 0  | 46 | 0        | 47 | 0  | 47 | 0  | 47 | 0  | 47 | 0  | 47    | 0  | 47 | 21 |    |
| 12                                  | 0  |    | 47 | 0  | 48 | 0  | 48 | 0  | 50 | 0        | 50 | 0  | 50 | 0  | 51 | 0  | 51 | 0  | 51    | 0  | 51 | 18 |    |
| 15                                  | 0  |    | 50 | 0  | 51 | 0  | 51 | 0  | 53 | 0        | 53 | 0  | 54 | 0  | 55 | 0  | 54 | 0  | 55    | 0  | 55 | 15 |    |
| 18                                  | 0  |    | 52 | 0  | 53 | 0  | 54 | 0  | 56 | 0        | 56 | 0  | 57 | 0  | 58 | 0  | 58 | 0  | 59    | 0  | 59 | 12 |    |
| 21                                  | 0  |    | 55 | 0  | 56 | 0  | 57 | 0  | 59 | 1        | 0  | 1  | 0  | 1  | 2  | 1  | 2  | 1  | 2     | 1  | 3  | 9  |    |
| 24                                  | 0  |    | 57 | 0  | 59 | 1  | 0  | 1  | 2  | 1        | 3  | 1  | 4  | 1  | 5  | 1  | 6  | 1  | 6     | 1  | 7  | 6  |    |
| 27                                  | 1  | 0  | 1  | 2  | 1  | 2  | 1  | 5  | 1  | 6        | 1  | 9  | 1  | 8  | 1  | 9  | 1  | 10 | 1     | 11 | 3  |    |    |
| 5                                   | 1  | 2  | 1  | 4  | 1  | 5  | 1  | 7  | 1  | 9        | 1  | 10 | 1  | 11 | 1  | 12 | 1  | 13 | 1     | 14 | 7  |    |    |
| 3                                   | 1  | 4  | 1  | 6  | 1  | 7  | 1  | 10 | 1  | 12       | 1  | 13 | 1  | 14 | 1  | 15 | 1  | 17 | 1     | 18 | 27 |    |    |
| 6                                   | 1  | 6  | 1  | 8  | 1  | 10 | 1  | 12 | 1  | 14       | 1  | 15 | 1  | 17 | 1  | 18 | 1  | 20 | 1     | 21 | 24 |    |    |
| 9                                   | 1  | 8  | 1  | 10 | 1  | 12 | 1  | 15 | 1  | 17       | 1  | 18 | 1  | 20 | 1  | 21 | 1  | 23 | 1     | 24 | 21 |    |    |
| 12                                  | 1  | 10 | 1  | 12 | 1  | 15 | 1  | 17 | 1  | 19       | 1  | 21 | 1  | 23 | 1  | 24 | 1  | 26 | 1     | 27 | 18 |    |    |
| 15                                  | 1  | 12 | 1  | 14 | 1  | 17 | 1  | 19 | 1  | 22       | 1  | 24 | 1  | 26 | 1  | 28 | 1  | 29 | 1     | 30 | 15 |    |    |
| 18                                  | 1  | 14 | 1  | 16 | 1  | 19 | 1  | 21 | 1  | 24       | 1  | 26 | 1  | 28 | 1  | 30 | 1  | 31 | 1     | 33 | 12 |    |    |
| 21                                  | 1  | 16 | 1  | 18 | 1  | 21 | 1  | 23 | 1  | 26       | 1  | 28 | 1  | 30 | 1  | 32 | 1  | 34 | 1     | 36 | 9  |    |    |
| 24                                  | 1  | 17 | 1  | 20 | 1  | 22 | 1  | 25 | 1  | 27       | 1  | 30 | 1  | 32 | 1  | 34 | 1  | 36 | 1     | 38 | 6  |    |    |
| 27                                  | 1  | 18 | 1  | 21 | 1  | 24 | 1  | 27 | 1  | 29       | 1  | 32 | 1  | 34 | 1  | 36 | 1  | 38 | 1     | 40 | 3  |    |    |
| 6                                   | 1  | 19 | 1  | 22 | 1  | 25 | 1  | 28 | 1  | 30       | 1  | 33 | 1  | 36 | 1  | 38 | 1  | 40 | 1     | 42 | 6  |    |    |
| Subtrahe                            |  |    |    |    |    |    |    |    |    |          |    |    |    |    |    |    |    |    |       |    |    |    |    |
| 5                                   | 9  | 5  | 8  | 5  | 7  | 5  | 6  | 5  | 5  | 5        | 4  | 5  | 3  | 5  | 2  | 5  | 1  | 5  | 0     |    |    |    |    |
| Distantia vera ☉ à ☿, vel ab eius ♀ |  |    |    |    |    |    |    |    |    |          |    |    |    |    |    |    |    |    |       |    |    |    |    |
| coquarta                            |  |    |    |    |    |    |    |    |    |          |    |    |    |    |    |    |    |    |       |    |    |    |    |

## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| Distantia vera ☉ à ☿, vel ab eius ☿ |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |
|-------------------------------------|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|
| Anom.                               | 0 | 21 | 0 | 22 | 0 | 23 | 0 | 24 | 0 | 25 | 0 | 26 | 0 | 27 | 0 | 28 | 0 | 29 | 1 | 0  |
| Adde                                |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |
|                                     | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  |
| 6                                   | 1 | 19 | 1 | 22 | 1 | 25 | 1 | 28 | 1 | 30 | 1 | 33 | 1 | 36 | 1 | 38 | 1 | 40 | 1 | 42 |
| 3                                   | 1 | 20 | 1 | 23 | 1 | 26 | 1 | 29 | 1 | 32 | 1 | 35 | 1 | 37 | 1 | 40 | 1 | 42 | 1 | 44 |
| 6                                   | 1 | 20 | 1 | 24 | 1 | 27 | 1 | 30 | 1 | 33 | 1 | 36 | 1 | 38 | 1 | 41 | 1 | 44 | 1 | 46 |
| 9                                   | 1 | 21 | 1 | 24 | 1 | 28 | 1 | 31 | 1 | 34 | 1 | 37 | 1 | 39 | 1 | 43 | 1 | 45 | 1 | 48 |
| 12                                  | 1 | 22 | 1 | 25 | 1 | 29 | 1 | 32 | 1 | 35 | 1 | 38 | 1 | 40 | 1 | 44 | 1 | 46 | 1 | 49 |
| 15                                  | 1 | 22 | 1 | 25 | 1 | 29 | 1 | 32 | 1 | 35 | 1 | 38 | 1 | 41 | 1 | 45 | 1 | 47 | 1 | 50 |
| 18                                  | 1 | 22 | 1 | 25 | 1 | 29 | 1 | 32 | 1 | 35 | 1 | 38 | 1 | 42 | 1 | 45 | 1 | 48 | 1 | 51 |
| 21                                  | 1 | 22 | 1 | 26 | 1 | 29 | 1 | 33 | 1 | 36 | 1 | 39 | 1 | 42 | 1 | 46 | 1 | 48 | 1 | 51 |
| 24                                  | 1 | 22 | 1 | 26 | 1 | 29 | 1 | 33 | 1 | 36 | 1 | 39 | 1 | 42 | 1 | 46 | 1 | 49 | 1 | 52 |
| 27                                  | 1 | 21 | 1 | 26 | 1 | 29 | 1 | 33 | 1 | 36 | 1 | 39 | 1 | 42 | 1 | 46 | 1 | 49 | 1 | 52 |
| 7                                   | 1 | 21 | 1 | 25 | 1 | 28 | 1 | 32 | 1 | 35 | 1 | 38 | 1 | 42 | 1 | 45 | 1 | 48 | 1 | 52 |
| 3                                   | 1 | 20 | 1 | 25 | 1 | 28 | 1 | 32 | 1 | 35 | 1 | 38 | 1 | 41 | 1 | 45 | 1 | 48 | 1 | 51 |
| 6                                   | 1 | 20 | 1 | 24 | 1 | 27 | 1 | 31 | 1 | 34 | 1 | 38 | 1 | 41 | 1 | 44 | 1 | 48 | 1 | 51 |
| 9                                   | 1 | 19 | 1 | 23 | 1 | 26 | 1 | 30 | 1 | 33 | 1 | 37 | 1 | 40 | 1 | 43 | 1 | 47 | 1 | 50 |
| 12                                  | 1 | 18 | 1 | 22 | 1 | 25 | 1 | 29 | 1 | 32 | 1 | 36 | 1 | 39 | 1 | 42 | 1 | 46 | 1 | 49 |
| 15                                  | 1 | 17 | 1 | 20 | 1 | 24 | 1 | 28 | 1 | 31 | 1 | 35 | 1 | 38 | 1 | 41 | 1 | 45 | 1 | 48 |
| 18                                  | 1 | 15 | 1 | 19 | 1 | 22 | 1 | 26 | 1 | 30 | 1 | 33 | 1 | 37 | 1 | 40 | 1 | 44 | 1 | 47 |
| 21                                  | 1 | 14 | 1 | 17 | 1 | 21 | 1 | 25 | 1 | 29 | 1 | 32 | 1 | 36 | 1 | 39 | 1 | 43 | 1 | 46 |
| 24                                  | 1 | 12 | 1 | 16 | 1 | 19 | 1 | 23 | 1 | 27 | 1 | 30 | 1 | 34 | 1 | 37 | 1 | 41 | 1 | 44 |
| 27                                  | 1 | 11 | 1 | 15 | 1 | 18 | 1 | 21 | 1 | 25 | 1 | 28 | 1 | 32 | 1 | 35 | 1 | 39 | 1 | 42 |
| 8                                   | 1 | 9  | 1 | 13 | 1 | 16 | 1 | 19 | 1 | 23 | 1 | 26 | 1 | 30 | 1 | 33 | 1 | 37 | 1 | 40 |
| 3                                   | 1 | 7  | 1 | 11 | 1 | 14 | 1 | 17 | 1 | 21 | 1 | 24 | 1 | 27 | 1 | 31 | 1 | 35 | 1 | 38 |
| 6                                   | 1 | 5  | 1 | 9  | 1 | 12 | 1 | 15 | 1 | 19 | 1 | 22 | 1 | 25 | 1 | 29 | 1 | 32 | 1 | 35 |
| 9                                   | 1 | 3  | 1 | 7  | 1 | 10 | 1 | 13 | 1 | 17 | 1 | 20 | 1 | 23 | 1 | 27 | 1 | 30 | 1 | 33 |
| 12                                  | 1 | 1  | 1 | 5  | 1 | 8  | 1 | 11 | 1 | 15 | 1 | 18 | 1 | 20 | 1 | 24 | 1 | 27 | 1 | 30 |
| 15                                  | 0 | 59 | 1 | 2  | 1 | 5  | 1 | 8  | 1 | 12 | 1 | 15 | 1 | 17 | 1 | 21 | 1 | 24 | 1 | 27 |
| 18                                  | 0 | 56 | 0 | 59 | 1 | 2  | 1 | 6  | 1 | 9  | 1 | 12 | 1 | 14 | 1 | 18 | 1 | 21 | 1 | 24 |
| 21                                  | 0 | 54 | 0 | 57 | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 12 | 1 | 15 | 1 | 18 | 1 | 21 |
| 24                                  | 0 | 51 | 0 | 54 | 0 | 57 | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 12 | 1 | 15 | 1 | 18 |
| 27                                  | 0 | 49 | 0 | 52 | 0 | 54 | 0 | 57 | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 12 | 1 | 15 |
| 9                                   | 0 | 46 | 0 | 49 | 0 | 51 | 0 | 54 | 0 | 57 | 1 | 0  | 1 | 3  | 1 | 6  | 1 | 9  | 1 | 12 |
| Subtrahe                            |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |
|                                     | 5 | 9  | 5 | 8  | 5 | 7  | 5 | 6  | 5 | 5  | 5 | 4  | 5 | 3  | 5 | 2  | 5 | 1  | 5 | 0  |
| Distantia vera ☉ à ☿, vel ab eius ☿ |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |



# Ac Tab. Sec undorum Mobilium.

Composita & absoluta Luna.

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| Anom.    |   |    |    |
|----------|---|----|----|
| 29       | I | 0  |    |
| 40       | I | 42 | 6  |
| 42       | I | 44 | 27 |
| 44       | I | 46 | 24 |
| 45       | I | 48 | 21 |
| 46       | I | 49 | 18 |
| 47       | I | 50 | 15 |
| 48       | I | 51 | 12 |
| 48       | I | 51 | 9  |
| 49       | I | 52 | 6  |
| 49       | I | 52 | 3  |
| 48       | I | 52 | 5  |
| 48       | I | 51 | 27 |
| 48       | I | 51 | 24 |
| 47       | I | 50 | 21 |
| 46       | I | 49 | 18 |
| 45       | I | 48 | 15 |
| 44       | I | 47 | 12 |
| 43       | I | 46 | 9  |
| 41       | I | 44 | 6  |
| 39       | I | 42 | 3  |
| 37       | I | 40 | 4  |
| 35       | I | 38 | 27 |
| 32       | I | 35 | 24 |
| 30       | I | 33 | 21 |
| 27       | I | 30 | 18 |
| 24       | I | 27 | 15 |
| 21       | I | 24 | 12 |
| 18       | I | 21 | 9  |
| 15       | I | 18 | 6  |
| 12       | I | 15 | 3  |
| 9        | I | 12 | 3  |
| corquata |   |    |    |
| 15       |   | 0  |    |

| Anom.    | Distantia vera, ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom. |    |
|----------|--------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|
|          | 0                                    | 21 | 0  | 22 | 0  | 23 | 0  | 24 | 0  | 25 | 0  | 26 | 0  | 27 | 0  | 28 | 0  | 29 | 1  | 0     |    |
|          | Adde                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |
|          | P                                    |    | P  |    | P  |    | P  |    | P  |    | P  |    | P  |    | P  |    | P  |    | P  |       |    |
| 0        | 46                                   | 0  | 49 | 0  | 51 | 0  | 54 | 0  | 57 | 1  | 0  | 1  | 3  | 1  | 6  | 1  | 9  | 1  | 12 | 3     |    |
| 3        | 43                                   | 0  | 46 | 0  | 48 | 0  | 51 | 0  | 54 | 0  | 57 | 1  | 0  | 1  | 3  | 1  | 5  | 1  | 9  | 27    |    |
| 6        | 41                                   | 0  | 43 | 0  | 46 | 0  | 48 | 0  | 51 | 0  | 54 | 0  | 57 | 0  | 59 | 1  | 2  | 1  | 5  | 24    |    |
| 9        | 38                                   | 0  | 40 | 0  | 43 | 0  | 45 | 0  | 48 | 0  | 50 | 0  | 53 | 0  | 56 | 0  | 58 | 1  | 1  | 21    |    |
| 12       | 35                                   | 0  | 38 | 0  | 40 | 0  | 42 | 0  | 45 | 0  | 47 | 0  | 50 | 0  | 53 | 0  | 55 | 0  | 58 | 18    |    |
| 15       | 32                                   | 0  | 35 | 0  | 37 | 0  | 39 | 0  | 42 | 0  | 44 | 0  | 46 | 0  | 49 | 0  | 51 | 0  | 54 | 15    |    |
| 18       | 30                                   | 0  | 32 | 0  | 34 | 0  | 36 | 0  | 39 | 0  | 41 | 0  | 43 | 0  | 46 | 0  | 48 | 0  | 50 | 12    |    |
| 21       | 27                                   | 0  | 29 | 0  | 31 | 0  | 33 | 0  | 35 | 0  | 37 | 0  | 39 | 0  | 42 | 0  | 44 | 0  | 47 | 9     |    |
| 24       | 24                                   | 0  | 26 | 0  | 28 | 0  | 30 | 0  | 32 | 0  | 34 | 0  | 36 | 0  | 39 | 0  | 41 | 0  | 43 | 6     |    |
| 27       | 22                                   | 0  | 23 | 0  | 25 | 0  | 27 | 0  | 29 | 0  | 31 | 0  | 33 | 0  | 35 | 0  | 37 | 0  | 39 | 3     |    |
| 10       | 19                                   | 0  | 20 | 0  | 22 | 0  | 24 | 0  | 26 | 0  | 27 | 0  | 29 | 0  | 31 | 0  | 33 | 0  | 35 | 2     |    |
| 3        | 16                                   | 0  | 18 | 0  | 19 | 0  | 21 | 0  | 23 | 0  | 24 | 0  | 26 | 0  | 28 | 0  | 30 | 0  | 32 | 27    |    |
| 6        | 14                                   | 0  | 15 | 0  | 17 | 0  | 18 | 0  | 20 | 0  | 21 | 0  | 23 | 0  | 24 | 0  | 26 | 0  | 28 | 24    |    |
| 9        | 11                                   | 0  | 12 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 18 | 0  | 19 | 0  | 21 | 0  | 23 | 0  | 24 | 21    |    |
| 12       | 9                                    | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 19 | 0  | 20 | 18    |    |
| 15       | 6                                    | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 0  | 11 | 0  | 13 | 0  | 14 | 0  | 16 | 0  | 17 | 15    |    |
| 18       | 4                                    | 0  | 5  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 0  | 12 | 0  | 13 | 12    |    |
| 21       | 1                                    | 0  | 2  | 0  | 2  | 0  | 4  | 0  | 5  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 9  | 0  | 9  | 9     |    |
| 24       | S                                    | 1  | S  | 2  | S  | 2  | 0  | 4  | 0  | 5  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 9  | 0  | 9     | 6  |
| 27       | 0                                    | 1  | 0  | 1  | 0  | 1  | 0  | S  | 1  | 0  | S  | 2  | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6     | 3  |
| 11       | 0                                    | 3  | 0  | 3  | 0  | 3  | 0  | 1  | 0  | S  | 1  | 0  | S  | 2  | 0  | 3  | 0  | 4  | 0  | 5     | 1  |
| 3        | 0                                    | 5  | 0  | 5  | 0  | 5  | 0  | 4  | 0  | 4  | 0  | 3  | 0  | 3  | 0  | 2  | 0  | 1  | 0  | 1     | 27 |
| 6        | 0                                    | 7  | 0  | 7  | 0  | 7  | 0  | 6  | 0  | 6  | 0  | 5  | 0  | 6  | 0  | 5  | 0  | 4  | 0  | 4     | 24 |
| 9        | 0                                    | 9  | 0  | 9  | 0  | 9  | 0  | 8  | 0  | 8  | 0  | 8  | 0  | 8  | 0  | 7  | 0  | 7  | 0  | 7     | 21 |
| 12       | 0                                    | 11 | 0  | 11 | 0  | 11 | 0  | 11 | 0  | 11 | 0  | 11 | 0  | 11 | 0  | 10 | 0  | 10 | 0  | 10    | 18 |
| 15       | 0                                    | 13 | 0  | 13 | 0  | 13 | 0  | 13 | 0  | 13 | 0  | 13 | 0  | 13 | 0  | 13 | 0  | 13 | 0  | 13    | 15 |
| 18       | 0                                    | 15 | 0  | 15 | 0  | 15 | 0  | 15 | 0  | 15 | 0  | 16 | 0  | 16 | 0  | 16 | 0  | 16 | 0  | 16    | 12 |
| 21       | 0                                    | 16 | 0  | 16 | 0  | 17 | 0  | 17 | 0  | 17 | 0  | 18 | 0  | 18 | 0  | 18 | 0  | 18 | 0  | 18    | 9  |
| 24       | 0                                    | 18 | 0  | 18 | 0  | 18 | 0  | 19 | 0  | 19 | 0  | 20 | 0  | 20 | 0  | 21 | 0  | 21 | 0  | 21    | 6  |
| 27       | 0                                    | 19 | 0  | 20 | 0  | 20 | 0  | 21 | 0  | 21 | 0  | 22 | 0  | 22 | 0  | 23 | 0  | 23 | 0  | 23    | 3  |
| 12       | 0                                    | 20 | 0  | 21 | 0  | 21 | 0  | 22 | 0  | 23 | 0  | 23 | 0  | 24 | 0  | 25 | 0  | 25 | 0  | 25    | 0  |
| corquata | 0                                    | 21 | 0  | 22 | 0  | 22 | 0  | 23 | 0  | 24 | 0  | 24 | 0  | 25 | 0  | 26 | 0  | 26 | 0  | 27    | 0  |
|          | Adde                                 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |
|          | 5                                    | 9  | 5  | 8  | 5  | 7  | 5  | 6  | 5  | 5  | 5  | 4  | 5  | 3  | 5  | 2  | 5  | 1  | 5  | 0     |    |
|          | Distantia vera ☉ à ☿, vel ab eius ☿  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |

| Anom. |  | Distantia vera ☉ à ☿, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    | Anom. |  |
|-------|--|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|-------|--|
|       |  | 1                                   | 1  | 2 | 1  | 3 | 1  | 4 | 1  | 5 | 1  | 6 | 1  | 7 | 1  | 8 | 1  | 9 | 1  | 10 |    |       |  |
|       |  | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |       |  |
|       |  | P                                   | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P  | /  |       |  |
| 0     |  | 0                                   | 28 | 0 | 28 | 0 | 29 | 0 | 29 | 0 | 29 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0  | 31 | 12    |  |
| 3     |  | 0                                   | 30 | 0 | 30 | 0 | 31 | 0 | 32 | 0 | 32 | 0 | 33 | 0 | 33 | 0 | 33 | 0 | 33 | 0  | 34 | 27    |  |
| 6     |  | 0                                   | 32 | 0 | 32 | 0 | 33 | 0 | 34 | 0 | 34 | 0 | 35 | 0 | 35 | 0 | 36 | 0 | 36 | 0  | 37 | 24    |  |
| 9     |  | 0                                   | 34 | 0 | 34 | 0 | 35 | 0 | 36 | 0 | 36 | 0 | 37 | 0 | 38 | 0 | 38 | 0 | 39 | 0  | 40 | 21    |  |
| 12    |  | 0                                   | 35 | 0 | 35 | 0 | 36 | 0 | 37 | 0 | 38 | 0 | 39 | 0 | 40 | 0 | 40 | 0 | 41 | 0  | 42 | 18    |  |
| 15    |  | 0                                   | 36 | 0 | 37 | 0 | 38 | 0 | 39 | 0 | 40 | 0 | 41 | 0 | 42 | 0 | 42 | 0 | 43 | 0  | 44 | 15    |  |
| 18    |  | 0                                   | 37 | 0 | 38 | 0 | 39 | 0 | 40 | 0 | 41 | 0 | 42 | 0 | 43 | 0 | 44 | 0 | 45 | 0  | 46 | 12    |  |
| 21    |  | 0                                   | 38 | 0 | 39 | 0 | 40 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 45 | 0 | 46 | 0 | 47 | 0  | 48 | 9     |  |
| 24    |  | 0                                   | 38 | 0 | 39 | 0 | 41 | 0 | 42 | 0 | 43 | 0 | 45 | 0 | 46 | 0 | 47 | 0 | 48 | 0  | 50 | 6     |  |
| 27    |  | 0                                   | 39 | 0 | 40 | 0 | 41 | 0 | 43 | 0 | 44 | 0 | 46 | 0 | 47 | 0 | 48 | 0 | 49 | 0  | 51 | 3     |  |
| 1     |  | 0                                   | 39 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 45 | 0 | 47 | 0 | 48 | 0 | 49 | 0 | 50 | 0  | 52 | 11    |  |
| 3     |  | 0                                   | 39 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 45 | 0 | 47 | 0 | 48 | 0 | 49 | 0 | 51 | 0  | 53 | 27    |  |
| 6     |  | 0                                   | 39 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 45 | 0 | 47 | 0 | 48 | 0 | 50 | 0 | 52 | 0  | 54 | 24    |  |
| 9     |  | 0                                   | 39 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 45 | 0 | 47 | 0 | 48 | 0 | 50 | 0 | 52 | 0  | 54 | 21    |  |
| 12    |  | 0                                   | 38 | 0 | 40 | 0 | 42 | 0 | 43 | 0 | 45 | 0 | 47 | 0 | 48 | 0 | 50 | 0 | 52 | 0  | 54 | 18    |  |
| 15    |  | 0                                   | 38 | 0 | 40 | 0 | 41 | 0 | 43 | 0 | 44 | 0 | 46 | 0 | 48 | 0 | 50 | 0 | 52 | 0  | 54 | 15    |  |
| 18    |  | 0                                   | 37 | 0 | 39 | 0 | 40 | 0 | 42 | 0 | 43 | 0 | 46 | 0 | 48 | 0 | 50 | 0 | 52 | 0  | 53 | 12    |  |
| 21    |  | 0                                   | 36 | 0 | 38 | 0 | 39 | 0 | 41 | 0 | 43 | 0 | 45 | 0 | 47 | 0 | 49 | 0 | 51 | 0  | 53 | 9     |  |
| 24    |  | 0                                   | 34 | 0 | 36 | 0 | 38 | 0 | 40 | 0 | 42 | 0 | 44 | 0 | 46 | 0 | 48 | 0 | 50 | 0  | 52 | 6     |  |
| 27    |  | 0                                   | 32 | 0 | 35 | 0 | 37 | 0 | 38 | 0 | 41 | 0 | 43 | 0 | 45 | 0 | 47 | 0 | 49 | 0  | 51 | 3     |  |
| 2     |  | 0                                   | 31 | 0 | 33 | 0 | 35 | 0 | 37 | 0 | 39 | 0 | 41 | 0 | 43 | 0 | 46 | 0 | 48 | 0  | 50 | 10    |  |
| 3     |  | 0                                   | 29 | 0 | 31 | 0 | 33 | 0 | 35 | 0 | 38 | 0 | 40 | 0 | 42 | 0 | 44 | 0 | 46 | 0  | 48 | 27    |  |
| 6     |  | 0                                   | 27 | 0 | 29 | 0 | 31 | 0 | 33 | 0 | 36 | 0 | 38 | 0 | 40 | 0 | 42 | 0 | 44 | 0  | 46 | 24    |  |
| 9     |  | 0                                   | 25 | 0 | 27 | 0 | 29 | 0 | 31 | 0 | 34 | 0 | 36 | 0 | 38 | 0 | 40 | 0 | 42 | 0  | 45 | 21    |  |
| 12    |  | 0                                   | 23 | 0 | 25 | 0 | 27 | 0 | 29 | 0 | 31 | 0 | 33 | 0 | 36 | 0 | 38 | 0 | 40 | 0  | 43 | 18    |  |
| 15    |  | 0                                   | 20 | 0 | 22 | 0 | 24 | 0 | 26 | 0 | 28 | 0 | 30 | 0 | 33 | 0 | 35 | 0 | 37 | 0  | 40 | 15    |  |
| 18    |  | 0                                   | 17 | 0 | 19 | 0 | 21 | 0 | 23 | 0 | 25 | 0 | 27 | 0 | 30 | 0 | 32 | 0 | 34 | 0  | 37 | 12    |  |
| 21    |  | 0                                   | 14 | 0 | 16 | 0 | 18 | 0 | 20 | 0 | 22 | 0 | 24 | 0 | 27 | 0 | 29 | 0 | 31 | 0  | 34 | 9     |  |
| 24    |  | 0                                   | 11 | 0 | 13 | 0 | 15 | 0 | 17 | 0 | 19 | 0 | 21 | 0 | 23 | 0 | 26 | 0 | 28 | 0  | 31 | 6     |  |
| 27    |  | 0                                   | 8  | 0 | 10 | 0 | 12 | 0 | 14 | 0 | 16 | 0 | 18 | 0 | 20 | 0 | 23 | 0 | 25 | 0  | 28 | 3     |  |
| 3     |  | 0                                   | 4  | 0 | 6  | 0 | 8  | 0 | 10 | 0 | 12 | 0 | 14 | 0 | 16 | 0 | 19 | 0 | 21 | 0  | 24 | 9     |  |
|       |  | Adde                                |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |       |  |
|       |  | 4                                   | 29 | 4 | 28 | 4 | 27 | 4 | 26 | 4 | 25 | 4 | 24 | 4 | 23 | 4 | 22 | 4 | 21 | 4  | 20 |       |  |
|       |  | Distantia vera ☉ à ☿, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |       |  |



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| 9   1 10  |   |    | Anom.    |
|-----------|---|----|----------|
| 30        | 0 | 31 | 12       |
| 33        | 0 | 34 | 27       |
| 36        | 0 | 37 | 24       |
| 39        | 0 | 40 | 21       |
| 41        | 0 | 42 | 18       |
| 43        | 0 | 44 | 15       |
| 45        | 0 | 46 | 12       |
| 47        | 0 | 48 | 9        |
| 48        | 0 | 50 | 6        |
| 49        | 0 | 51 | 3        |
| 50        | 0 | 52 | 11       |
| 51        | 0 | 53 | 27       |
| 52        | 0 | 54 | 24       |
| 52        | 0 | 54 | 21       |
| 52        | 0 | 54 | 18       |
| 52        | 0 | 54 | 15       |
| 52        | 0 | 53 | 12       |
| 51        | 0 | 53 | 9        |
| 50        | 0 | 52 | 6        |
| 49        | 0 | 51 | 3        |
| 48        | 0 | 50 | 10       |
| 46        | 0 | 48 | 27       |
| 44        | 0 | 46 | 24       |
| 42        | 0 | 45 | 21       |
| 40        | 0 | 43 | 18       |
| 37        | 0 | 40 | 15       |
| 34        | 0 | 37 | 12       |
| 31        | 0 | 34 | 9        |
| 28        | 0 | 31 | 6        |
| 25        | 0 | 28 | 3        |
| 21        | 0 | 24 | 0        |
| 21   4 20 |   |    | conquata |

| Aonom.   |    | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    | Aonom.   |    |    |
|----------|----|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|----------|----|----|
|          |    | 1                                   | 2  | 3 | 4  | 5 | 6  | 7 | 8  | 9 | 10 |   |    |   |    |   |    |   |    |    |    |          |    |    |
|          |    | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |          |    |    |
|          |    | P                                   | P  | P | P  | P | P  | P | P  | P | P  | P | P  | P | P  | P | P  | P | P  | P  | P  |          |    |    |
| 3        | 3  | 0                                   | 4  | 0 | 6  | 0 | 8  | 0 | 10 | 0 | 12 | 0 | 14 | 0 | 16 | 0 | 19 | 0 | 21 | 0  | 24 | 9        |    |    |
| 6        | 3  | 0                                   | A  | 0 | 2  | 0 | 5  | 0 | 6  | 0 | 8  | 0 | 10 | 0 | 13 | 0 | 15 | 0 | 17 | 0  | 20 | 27       |    |    |
| 9        | 6  | 0                                   | 3  | 0 | A  | 2 | 0  | A | 1  | 0 | A  | 2 | 0  | 4 | 0  | 6 | 0  | 8 | 0  | 11 | 0  | 13       | 24 |    |
| 12       | 9  | 0                                   | 7  | 0 | 5  | 0 | A  | 3 | 0  | A | 1  | 0 | A  | 0 | 2  | 0 | 4  | 0 | 7  | 0  | 9  | 21       |    |    |
| 15       | 12 | 0                                   | 10 | 0 | 8  | 0 | 7  | 0 | 5  | 0 | 4  | 0 | A  | 2 | 0  | A | 0  | 2 | 0  | 4  | 0  | 6        | 18 |    |
| 18       | 15 | 0                                   | 14 | 0 | 12 | 0 | 11 | 0 | 9  | 0 | 8  | 0 | 6  | 0 | 5  | 0 | A  | 2 | 0  | 0  | 0  | 2        | 15 |    |
| 21       | 18 | 0                                   | 18 | 0 | 16 | 0 | 15 | 0 | 13 | 0 | 12 | 0 | 10 | 0 | 9  | 0 | 7  | 0 | A  | 5  | 0  | A        | 3  | 12 |
| 24       | 21 | 0                                   | 22 | 0 | 20 | 0 | 19 | 0 | 17 | 0 | 17 | 0 | 15 | 0 | 13 | 0 | 11 | 0 | 10 | 0  | 8  | 9        |    |    |
| 27       | 24 | 0                                   | 26 | 0 | 25 | 0 | 24 | 0 | 22 | 0 | 21 | 0 | 20 | 0 | 18 | 0 | 16 | 0 | 14 | 0  | 12 | 6        |    |    |
| 3        | 27 | 0                                   | 30 | 0 | 29 | 0 | 28 | 0 | 27 | 0 | 26 | 0 | 24 | 0 | 23 | 0 | 21 | 0 | 19 | 0  | 17 | 3        |    |    |
| 6        | 3  | 0                                   | 34 | 0 | 34 | 0 | 33 | 0 | 32 | 0 | 30 | 0 | 29 | 0 | 28 | 0 | 26 | 0 | 24 | 0  | 22 | 8        |    |    |
| 9        | 6  | 0                                   | 38 | 0 | 38 | 0 | 37 | 0 | 36 | 0 | 35 | 0 | 34 | 0 | 32 | 0 | 31 | 0 | 29 | 0  | 27 | 27       |    |    |
| 12       | 9  | 0                                   | 42 | 0 | 42 | 0 | 41 | 0 | 41 | 0 | 39 | 0 | 38 | 0 | 37 | 0 | 36 | 0 | 34 | 0  | 32 | 24       |    |    |
| 15       | 12 | 0                                   | 46 | 0 | 46 | 0 | 46 | 0 | 45 | 0 | 44 | 0 | 43 | 0 | 42 | 0 | 41 | 0 | 39 | 0  | 37 | 21       |    |    |
| 18       | 15 | 0                                   | 50 | 0 | 50 | 0 | 50 | 0 | 49 | 0 | 48 | 0 | 48 | 0 | 47 | 0 | 46 | 0 | 45 | 0  | 43 | 18       |    |    |
| 21       | 18 | 0                                   | 55 | 0 | 55 | 0 | 55 | 0 | 54 | 0 | 53 | 0 | 53 | 0 | 52 | 0 | 51 | 0 | 50 | 0  | 48 | 15       |    |    |
| 24       | 21 | 0                                   | 59 | 0 | 59 | 0 | 59 | 0 | 58 | 0 | 58 | 0 | 58 | 0 | 57 | 0 | 56 | 0 | 55 | 0  | 54 | 12       |    |    |
| 27       | 24 | I                                   | 3  | I | 3  | I | 4  | I | 3  | I | 2  | I | 2  | I | 1  | I | 0  | I | 0  | 0  | 59 | 9        |    |    |
| 3        | 27 | I                                   | 7  | I | 7  | I | 8  | I | 7  | I | 7  | I | 7  | I | 6  | I | 5  | I | 5  | I  | 4  | 6        |    |    |
| 6        | 3  | I                                   | 11 | I | 11 | I | 12 | I | 12 | I | 11 | I | 11 | I | 10 | I | 10 | I | 10 | I  | 9  | 3        |    |    |
| 9        | 6  | I                                   | 15 | I | 15 | I | 16 | I | 16 | I | 16 | I | 16 | I | 15 | I | 15 | I | 15 | I  | 14 | 27       |    |    |
| 12       | 9  | I                                   | 19 | I | 19 | I | 20 | I | 20 | I | 20 | I | 20 | I | 20 | I | 20 | I | 20 | I  | 19 | 24       |    |    |
| 15       | 12 | I                                   | 22 | I | 23 | I | 24 | I | 24 | I | 24 | I | 25 | I | 25 | I | 25 | I | 25 | I  | 24 | 21       |    |    |
| 18       | 15 | I                                   | 25 | I | 26 | I | 27 | I | 28 | I | 28 | I | 29 | I | 29 | I | 29 | I | 30 | I  | 29 | 18       |    |    |
| 21       | 18 | I                                   | 28 | I | 29 | I | 31 | I | 31 | I | 32 | I | 33 | I | 33 | I | 33 | I | 34 | I  | 34 | 15       |    |    |
| 24       | 21 | I                                   | 31 | I | 32 | I | 34 | I | 35 | I | 36 | I | 37 | I | 37 | I | 37 | I | 38 | I  | 38 | 12       |    |    |
| 27       | 24 | I                                   | 34 | I | 35 | I | 37 | I | 38 | I | 39 | I | 40 | I | 40 | I | 41 | I | 42 | I  | 42 | 9        |    |    |
| 3        | 27 | I                                   | 37 | I | 38 | I | 40 | I | 41 | I | 42 | I | 44 | I | 44 | I | 45 | I | 46 | I  | 46 | 6        |    |    |
| 6        | 3  | I                                   | 40 | I | 41 | I | 43 | I | 44 | I | 45 | I | 47 | I | 47 | I | 48 | I | 49 | I  | 50 | 3        |    |    |
| 9        | 6  | I                                   | 42 | I | 44 | I | 46 | I | 47 | I | 48 | I | 50 | I | 51 | I | 52 | I | 53 | I  | 53 | 0        |    |    |
| 12       | 9  | I                                   | 44 | I | 46 | I | 48 | I | 50 | I | 51 | I | 53 | I | 54 | I | 55 | I | 56 | I  | 56 | 6        |    |    |
|          |    | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |          |    |    |
|          |    | 4                                   | 29 | 4 | 28 | 4 | 27 | 4 | 26 | 4 | 25 | 4 | 24 | 4 | 23 | 4 | 22 | 4 | 21 | 4  | 20 |          |    |    |
|          |    | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |          |    |    |
| corrupta |    |                                     |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    | corrupta |    |    |

| Distantia vera ☉ à ☿, vel ab eius ♀ |      |      |      |      |      |      |      |      |      |      |    | Anom.    |
|-------------------------------------|------|------|------|------|------|------|------|------|------|------|----|----------|
| Anom.                               | 1    | 2    | 3    | 4    | 5    | 6    | 7    | 8    | 9    | 10   |    |          |
| Adde                                |      |      |      |      |      |      |      |      |      |      |    |          |
|                                     | P    | P    | P    | P    | P    | P    | P    | P    | P    | P    |    |          |
| 6                                   | 1 44 | 1 46 | 1 48 | 1 50 | 1 51 | 1 53 | 1 54 | 1 55 | 1 56 | 1 56 | 6  |          |
| 3                                   | 1 46 | 1 49 | 1 51 | 1 53 | 1 54 | 1 56 | 1 57 | 1 58 | 1 59 | 2 0  | 27 |          |
| 6                                   | 1 48 | 1 51 | 1 53 | 1 55 | 1 56 | 1 58 | 1 59 | 2 1  | 2 2  | 2 3  | 24 |          |
| 9                                   | 1 50 | 1 53 | 1 55 | 1 57 | 1 58 | 2 0  | 2 1  | 2 3  | 2 5  | 2 6  | 21 |          |
| 12                                  | 1 51 | 1 54 | 1 56 | 1 58 | 2 0  | 2 2  | 2 3  | 2 5  | 2 7  | 2 8  | 18 |          |
| 15                                  | 1 52 | 1 55 | 1 57 | 2 0  | 2 2  | 2 4  | 2 5  | 2 7  | 2 9  | 2 10 | 15 |          |
| 18                                  | 1 53 | 1 56 | 1 58 | 2 1  | 2 3  | 2 5  | 2 7  | 2 9  | 2 11 | 2 12 | 12 |          |
| 21                                  | 1 54 | 1 56 | 1 59 | 2 2  | 2 4  | 2 6  | 2 9  | 2 11 | 2 13 | 2 14 | 9  |          |
| 24                                  | 1 54 | 1 57 | 2 0  | 2 2  | 2 5  | 2 7  | 2 10 | 2 12 | 2 14 | 2 15 | 6  |          |
| 27                                  | 1 55 | 1 57 | 2 0  | 2 3  | 2 6  | 2 7  | 2 11 | 2 13 | 2 15 | 2 16 | 3  |          |
| 7                                   | 1 55 | 1 57 | 2 0  | 2 3  | 2 6  | 2 8  | 2 11 | 2 13 | 2 15 | 2 17 | 5  |          |
| 3                                   | 1 55 | 1 57 | 2 0  | 2 3  | 2 6  | 2 8  | 2 11 | 2 13 | 2 16 | 2 18 | 27 |          |
| 6                                   | 1 54 | 1 57 | 2 0  | 2 3  | 2 5  | 2 8  | 2 11 | 2 13 | 2 16 | 2 18 | 24 |          |
| 9                                   | 1 53 | 1 56 | 1 59 | 2 3  | 2 5  | 2 8  | 2 10 | 2 13 | 2 16 | 2 18 | 21 |          |
| 12                                  | 1 52 | 1 56 | 1 59 | 2 2  | 2 4  | 2 7  | 2 10 | 2 12 | 2 15 | 2 18 | 18 |          |
| 15                                  | 1 51 | 1 55 | 1 58 | 2 1  | 2 4  | 2 7  | 2 9  | 2 11 | 2 15 | 2 17 | 15 |          |
| 18                                  | 1 50 | 1 54 | 1 57 | 2 0  | 2 3  | 2 6  | 2 8  | 2 11 | 2 14 | 2 16 | 12 |          |
| 21                                  | 1 49 | 1 53 | 1 56 | 1 58 | 2 2  | 2 5  | 2 7  | 2 10 | 2 13 | 2 15 | 9  |          |
| 24                                  | 1 47 | 1 51 | 1 54 | 1 57 | 2 0  | 2 3  | 2 6  | 2 8  | 2 11 | 2 14 | 6  |          |
| 27                                  | 1 45 | 1 49 | 1 52 | 1 55 | 1 58 | 2 1  | 2 4  | 2 7  | 2 10 | 2 12 | 3  |          |
| 8                                   | 1 43 | 1 47 | 1 50 | 1 53 | 1 56 | 1 59 | 2 2  | 2 5  | 2 8  | 2 10 | 4  |          |
| 3                                   | 1 41 | 1 45 | 1 48 | 1 51 | 1 54 | 1 57 | 2 0  | 2 3  | 2 6  | 2 8  | 27 |          |
| 6                                   | 1 39 | 1 42 | 1 45 | 1 48 | 1 51 | 1 54 | 1 57 | 2 0  | 2 3  | 2 6  | 24 |          |
| 9                                   | 1 36 | 1 40 | 1 43 | 1 46 | 1 49 | 1 52 | 1 55 | 1 58 | 2 1  | 2 3  | 21 |          |
| 12                                  | 1 33 | 1 37 | 1 40 | 1 43 | 1 46 | 1 49 | 1 52 | 1 55 | 1 58 | 2 0  | 18 |          |
| 15                                  | 1 30 | 1 34 | 1 37 | 1 40 | 1 43 | 1 46 | 1 49 | 1 52 | 1 55 | 1 58 | 15 |          |
| 18                                  | 1 27 | 1 31 | 1 34 | 1 37 | 1 40 | 1 43 | 1 46 | 1 49 | 1 52 | 1 55 | 12 |          |
| 21                                  | 1 24 | 1 28 | 1 31 | 1 34 | 1 37 | 1 40 | 1 43 | 1 46 | 1 49 | 1 52 | 9  |          |
| 24                                  | 1 21 | 1 24 | 1 27 | 1 30 | 1 33 | 1 36 | 1 39 | 1 42 | 1 45 | 1 48 | 6  |          |
| 27                                  | 1 18 | 1 21 | 1 24 | 1 27 | 1 30 | 1 33 | 1 36 | 1 39 | 1 42 | 1 45 | 3  |          |
| 9                                   | 1 15 | 1 17 | 1 20 | 1 23 | 1 26 | 1 29 | 1 32 | 1 35 | 1 38 | 1 41 | 3  |          |
| Subtrahe                            |      |      |      |      |      |      |      |      |      |      |    | corquata |
| 4                                   | 29   | 28   | 27   | 26   | 25   | 24   | 23   | 22   | 21   | 20   |    |          |
| Distantia vera ☉ à ☿, vel ab eius ♀ |      |      |      |      |      |      |      |      |      |      |    |          |



# Ac Tab. Secundorum Mobilium.

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Composita & absoluta Luna.

| Anom.     |    | I 9 I 10 |    |
|-----------|----|----------|----|
| P         | P  | P        | P  |
| 1         | 56 | 1        | 56 |
| 1         | 59 | 2        | 0  |
| 2         | 2  | 2        | 3  |
| 2         | 5  | 2        | 6  |
| 2         | 7  | 2        | 8  |
| 2         | 9  | 2        | 10 |
| 2         | 11 | 2        | 12 |
| 2         | 13 | 2        | 14 |
| 2         | 14 | 2        | 15 |
| 2         | 15 | 2        | 16 |
| 2         | 15 | 2        | 17 |
| 2         | 16 | 2        | 18 |
| 2         | 16 | 2        | 18 |
| 2         | 15 | 2        | 18 |
| 2         | 15 | 2        | 17 |
| 2         | 14 | 2        | 16 |
| 2         | 13 | 2        | 15 |
| 2         | 11 | 2        | 14 |
| 2         | 10 | 2        | 12 |
| 2         | 8  | 2        | 10 |
| 2         | 6  | 2        | 8  |
| 2         | 3  | 2        | 6  |
| 2         | 1  | 2        | 3  |
| 1         | 58 | 2        | 0  |
| 1         | 55 | 1        | 58 |
| 1         | 52 | 1        | 55 |
| 1         | 49 | 1        | 52 |
| 1         | 45 | 1        | 48 |
| 1         | 42 | 1        | 45 |
| 1         | 38 | 1        | 41 |
| 4 21 4 20 |    | conquata |    |

| Anom.    |  | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    | Anom.    |    |
|----------|--|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|----------|----|
|          |  | I                                   | I  | 2 | I  | 3 | I  | 4 | I  | 5 | I  | 6 | I  | 7 | I  | 8 | I  | 9 | I  | 10 |    |          |    |
|          |  | Adde                                |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |          |    |
|          |  | P                                   |    | P |    | P |    | P |    | P |    | P |    | P |    | P |    | P |    | P  |    |          |    |
| 9        |  | I                                   | 15 | I | 17 | I | 20 | I | 23 | I | 26 | I | 29 | I | 32 | I | 35 | I | 38 | I  | 41 | 3        |    |
| 3        |  | I                                   | 11 | I | 14 | I | 16 | I | 19 | I | 22 | I | 25 | I | 28 | I | 31 | I | 34 | I  | 37 | 27       |    |
| 6        |  | I                                   | 8  | I | 10 | I | 13 | I | 16 | I | 18 | I | 21 | I | 24 | I | 27 | I | 29 | I  | 32 | 24       |    |
| 9        |  | I                                   | 4  | I | 7  | I | 9  | I | 12 | I | 15 | I | 17 | I | 20 | I | 23 | I | 25 | I  | 28 | 21       |    |
| 12       |  | I                                   | 0  | I | 3  | I | 5  | I | 8  | I | 11 | I | 13 | I | 16 | I | 19 | I | 21 | I  | 24 | 18       |    |
| 15       |  | 0                                   | 56 | 0 | 59 | I | 1  | I | 4  | I | 7  | I | 9  | I | 12 | I | 14 | I | 16 | I  | 19 | 15       |    |
| 18       |  | 0                                   | 53 | 0 | 55 | 0 | 57 | I | 0  | I | 2  | I | 5  | I | 7  | I | 10 | I | 12 | I  | 15 | 12       |    |
| 21       |  | 0                                   | 49 | 0 | 51 | 0 | 53 | 0 | 56 | 0 | 58 | I | 0  | I | 3  | I | 5  | I | 7  | I  | 10 | 9        |    |
| 24       |  | 0                                   | 45 | 0 | 47 | 0 | 49 | 0 | 52 | 0 | 54 | 0 | 56 | 0 | 59 | I | 1  | I | 3  | I  | 6  | 6        |    |
| 27       |  | 0                                   | 41 | 0 | 43 | 0 | 45 | 0 | 48 | 0 | 49 | 0 | 51 | 0 | 54 | 0 | 56 | 0 | 58 | I  | 1  | 3        |    |
| 10       |  | 0                                   | 37 | 0 | 39 | 0 | 41 | 0 | 43 | 0 | 45 | 0 | 47 | 0 | 50 | 0 | 52 | 0 | 54 | 0  | 56 | 2        |    |
| 3        |  | 0                                   | 33 | 0 | 35 | 0 | 37 | 0 | 39 | 0 | 41 | 0 | 42 | 0 | 45 | 0 | 47 | 0 | 49 | 0  | 51 | 27       |    |
| 6        |  | 0                                   | 29 | 0 | 31 | 0 | 33 | 0 | 35 | 0 | 36 | 0 | 38 | 0 | 40 | 0 | 42 | 0 | 44 | 0  | 46 | 24       |    |
| 9        |  | 0                                   | 25 | 0 | 27 | 0 | 29 | 0 | 31 | 0 | 32 | 0 | 34 | 0 | 36 | 0 | 38 | 0 | 40 | 0  | 42 | 21       |    |
| 12       |  | 0                                   | 22 | 0 | 23 | 0 | 25 | 0 | 27 | 0 | 28 | 0 | 30 | 0 | 31 | 0 | 33 | 0 | 35 | 0  | 37 | 18       |    |
| 15       |  | 0                                   | 18 | 0 | 19 | 0 | 21 | 0 | 23 | 0 | 24 | 0 | 25 | 0 | 27 | 0 | 29 | 0 | 30 | 0  | 32 | 15       |    |
| 18       |  | 0                                   | 14 | 0 | 16 | 0 | 17 | 0 | 19 | 0 | 20 | 0 | 21 | 0 | 23 | 0 | 24 | 0 | 26 | 0  | 27 | 12       |    |
| 21       |  | 0                                   | 11 | 0 | 12 | 0 | 13 | 0 | 15 | 0 | 16 | 0 | 17 | 0 | 19 | 0 | 20 | 0 | 21 | 0  | 23 | 9        |    |
| 24       |  | 0                                   | 7  | 0 | 8  | 0 | 9  | 0 | 11 | 0 | 12 | 0 | 13 | 0 | 14 | 0 | 15 | 0 | 16 | 0  | 18 | 6        |    |
| 27       |  | 0                                   | 4  | 0 | 5  | 0 | 6  | 0 | 7  | 0 | 8  | 0 | 8  | 0 | 10 | 0 | 11 | 0 | 12 | 0  | 13 | 3        |    |
| 11       |  | 0                                   | S  | 0 | 1  | 0 | 2  | 0 | 3  | 0 | 4  | 0 | 4  | 0 | 6  | 0 | 7  | 0 | 8  | 0  | 9  | 1        |    |
| 3        |  | 0                                   | 3  | 0 | S  | 2 | 0  | S | 1  | 0 | S  | 1 | 0  | 0 | S  | 0 | 2  | 0 | S  | 3  | 0  | 4        | 27 |
| 6        |  | 0                                   | 6  | 0 | 5  | 0 | 5  | 0 | 4  | 0 | 3  | 0 | 3  | 0 | 2  | 0 | 1  | 0 | S  | 0  | S  | 0        | 24 |
| 9        |  | 0                                   | 10 | 0 | 9  | 0 | 8  | 0 | 8  | 0 | 7  | 0 | 7  | 0 | 6  | 0 | 5  | 0 | 5  | 0  | 5  | 21       |    |
| 12       |  | 0                                   | 13 | 0 | 12 | 0 | 12 | 0 | 12 | 0 | 11 | 0 | 11 | 0 | 10 | 0 | 9  | 0 | 9  | 0  | 9  | 18       |    |
| 15       |  | 0                                   | 16 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 15 | 0 | 14 | 0 | 13 | 0 | 13 | 0  | 13 | 15       |    |
| 18       |  | 0                                   | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 18 | 0 | 17 | 0 | 17 | 0  | 17 | 12       |    |
| 21       |  | 0                                   | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0 | 21 | 0  | 21 | 9        |    |
| 24       |  | 0                                   | 23 | 0 | 24 | 0 | 24 | 0 | 24 | 0 | 24 | 0 | 24 | 0 | 24 | 0 | 24 | 0 | 24 | 0  | 24 | 6        |    |
| 27       |  | 0                                   | 26 | 0 | 26 | 0 | 27 | 0 | 27 | 0 | 27 | 0 | 27 | 0 | 27 | 0 | 27 | 0 | 27 | 0  | 28 | 3        |    |
| 12       |  | 0                                   | 28 | 0 | 28 | 0 | 29 | 0 | 29 | 0 | 29 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 0  | 31 | 0        |    |
| conquata |  | Adde                                |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    | conquata |    |
|          |  | 4                                   | 29 | 4 | 28 | 4 | 27 | 4 | 26 | 4 | 25 | 4 | 24 | 4 | 23 | 4 | 22 | 4 | 21 | 4  | 20 |          |    |
|          |  | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |          |    |

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| Distantia vera ☉ à ☼, vel ab eius ♀ |                                     |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |          |
|-------------------------------------|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----------|
| Anom.                               | 1                                   | 11 | 1 | 12 | 1 | 13 | 1 | 14 | 1 | 15 | 1 | 16 | 1 | 17 | 1 | 18 | 1 | 19 | 1 | 20 | Anom.    |
|                                     | Subtrahere                          |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |          |
|                                     | P                                   | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  |          |
| 0                                   | 0                                   | 31 | 0 | 31 | 0 | 31 | 0 | 31 | 0 | 31 | 0 | 31 | 0 | 30 | 0 | 30 | 0 | 30 | 0 | 30 | 12       |
| 3                                   | 0                                   | 34 | 0 | 34 | 0 | 34 | 0 | 35 | 0 | 35 | 0 | 35 | 0 | 34 | 0 | 34 | 0 | 34 | 0 | 34 | 27       |
| 6                                   | 0                                   | 37 | 0 | 37 | 0 | 37 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 24       |
| 9                                   | 0                                   | 40 | 0 | 40 | 0 | 40 | 0 | 41 | 0 | 41 | 0 | 42 | 0 | 42 | 0 | 42 | 0 | 42 | 0 | 42 | 21       |
| 12                                  | 0                                   | 42 | 0 | 43 | 0 | 43 | 0 | 44 | 0 | 44 | 0 | 45 | 0 | 45 | 0 | 46 | 0 | 46 | 0 | 46 | 18       |
| 15                                  | 0                                   | 45 | 0 | 46 | 0 | 46 | 0 | 47 | 0 | 47 | 0 | 48 | 0 | 48 | 0 | 49 | 0 | 50 | 0 | 50 | 15       |
| 18                                  | 0                                   | 47 | 0 | 48 | 0 | 48 | 0 | 49 | 0 | 50 | 0 | 51 | 0 | 51 | 0 | 52 | 0 | 53 | 0 | 54 | 12       |
| 21                                  | 0                                   | 49 | 0 | 50 | 0 | 50 | 0 | 52 | 0 | 53 | 0 | 54 | 0 | 54 | 0 | 55 | 0 | 56 | 0 | 57 | 9        |
| 24                                  | 0                                   | 51 | 0 | 52 | 0 | 52 | 0 | 54 | 0 | 55 | 0 | 56 | 0 | 56 | 0 | 57 | 0 | 58 | 0 | 59 | 6        |
| 27                                  | 0                                   | 52 | 0 | 54 | 0 | 54 | 0 | 56 | 0 | 57 | 0 | 58 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 3        |
| 1                                   | 0                                   | 53 | 0 | 55 | 0 | 56 | 0 | 57 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 11       |
| 3                                   | 0                                   | 54 | 0 | 56 | 0 | 57 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 27       |
| 6                                   | 0                                   | 55 | 0 | 57 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 24       |
| 9                                   | 0                                   | 56 | 0 | 57 | 0 | 58 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 21       |
| 12                                  | 0                                   | 56 | 0 | 58 | 0 | 59 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 0 | 67 | 18       |
| 15                                  | 0                                   | 56 | 0 | 58 | 0 | 59 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 0 | 67 | 15       |
| 18                                  | 0                                   | 55 | 0 | 57 | 0 | 59 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 0 | 67 | 12       |
| 21                                  | 0                                   | 55 | 0 | 57 | 0 | 59 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 0 | 67 | 9        |
| 24                                  | 0                                   | 54 | 0 | 56 | 0 | 59 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 0 | 67 | 6        |
| 27                                  | 0                                   | 53 | 0 | 55 | 0 | 58 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 0 | 66 | 3        |
| 2                                   | 0                                   | 52 | 0 | 54 | 0 | 57 | 0 | 59 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 0 | 65 | 10       |
| 3                                   | 0                                   | 51 | 0 | 53 | 0 | 56 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 0 | 64 | 27       |
| 6                                   | 0                                   | 49 | 0 | 51 | 0 | 54 | 0 | 56 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 0 | 62 | 0 | 63 | 24       |
| 9                                   | 0                                   | 47 | 0 | 49 | 0 | 52 | 0 | 54 | 0 | 56 | 0 | 57 | 0 | 58 | 0 | 59 | 0 | 60 | 0 | 61 | 21       |
| 12                                  | 0                                   | 45 | 0 | 47 | 0 | 50 | 0 | 52 | 0 | 54 | 0 | 55 | 0 | 56 | 0 | 57 | 0 | 58 | 0 | 59 | 18       |
| 15                                  | 0                                   | 42 | 0 | 44 | 0 | 47 | 0 | 49 | 0 | 51 | 0 | 52 | 0 | 53 | 0 | 54 | 0 | 55 | 0 | 56 | 15       |
| 18                                  | 0                                   | 39 | 0 | 41 | 0 | 44 | 0 | 46 | 0 | 48 | 0 | 49 | 0 | 50 | 0 | 51 | 0 | 52 | 0 | 53 | 12       |
| 21                                  | 0                                   | 36 | 0 | 38 | 0 | 41 | 0 | 43 | 0 | 45 | 0 | 46 | 0 | 47 | 0 | 48 | 0 | 49 | 0 | 50 | 9        |
| 24                                  | 0                                   | 33 | 0 | 35 | 0 | 38 | 0 | 40 | 0 | 42 | 0 | 43 | 0 | 44 | 0 | 45 | 0 | 46 | 0 | 47 | 6        |
| 27                                  | 0                                   | 30 | 0 | 32 | 0 | 35 | 0 | 37 | 0 | 39 | 0 | 40 | 0 | 41 | 0 | 42 | 0 | 43 | 0 | 44 | 3        |
| 3                                   | 0                                   | 26 | 0 | 28 | 0 | 31 | 0 | 33 | 0 | 35 | 0 | 36 | 0 | 37 | 0 | 38 | 0 | 39 | 0 | 40 | 0        |
| corquata                            | Adde                                |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    | corquata |
|                                     | 4                                   | 19 | 4 | 18 | 4 | 17 | 4 | 16 | 4 | 15 | 4 | 14 | 4 | 13 | 4 | 12 | 4 | 11 | 4 | 10 |          |
|                                     | Distantia vera ☉ à ☼, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |          |



| 19 | 1 | 20 | Anom.    |
|----|---|----|----------|
| 30 | 0 | 30 | 12       |
| 34 | 0 | 34 | 27       |
| 38 | 0 | 38 | 24       |
| 42 | 0 | 42 | 21       |
| 46 | 0 | 46 | 18       |
| 50 | 0 | 50 | 15       |
| 53 | 0 | 54 | 12       |
| 56 | 0 | 57 | 9        |
| 58 | 0 | 59 | 6        |
| 1  | 1 | 2  | 3        |
| 3  | 1 | 4  | 11       |
| 5  | 1 | 6  | 27       |
| 6  | 1 | 7  | 24       |
| 8  | 1 | 9  | 21       |
| 9  | 1 | 10 | 18       |
| 10 | 1 | 11 | 15       |
| 11 | 1 | 12 | 12       |
| 11 | 1 | 13 | 9        |
| 11 | 1 | 13 | 6        |
| 10 | 1 | 13 | 3        |
| 10 | 1 | 12 | 10       |
| 9  | 1 | 11 | 27       |
| 8  | 1 | 10 | 24       |
| 6  | 1 | 8  | 21       |
| 4  | 1 | 6  | 18       |
| 2  | 1 | 4  | 15       |
| 0  | 1 | 2  | 12       |
| 57 | 0 | 59 | 9        |
| 54 | 0 | 56 | 6        |
| 51 | 0 | 53 | 3        |
| 47 | 0 | 50 | 9        |
| 11 | 4 | 10 | corrupta |

| Anom. |   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    | Anom. |    |
|-------|---|-------------------------------------|----|---|----|---|----|---|----|---|----|----|----|----|----|----|----|----|----|----|----|-------|----|
|       |   | 1                                   | 11 | 1 | 12 | 1 | 13 | 1 | 14 | 1 | 15 | 1  | 16 | 1  | 17 | 1  | 18 | 1  | 19 | 1  | 20 |       |    |
|       |   | Subtrahe                            |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |    |
|       |   | P                                   | /  | P | /  | P | /  | P | /  | P | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  |       |    |
| 3     |   | 0                                   | 26 | 0 | 28 | 0 | 31 | 0 | 33 | 0 | 36 | 0  | 39 | 0  | 41 | 0  | 44 | 0  | 47 | 0  | 50 | 9     |    |
| 3     |   | 0                                   | 22 | 0 | 24 | 0 | 27 | 0 | 29 | 0 | 32 | 0  | 35 | 0  | 37 | 0  | 40 | 0  | 43 | 0  | 46 | 27    |    |
| 6     |   | 0                                   | 18 | 0 | 20 | 0 | 23 | 0 | 25 | 0 | 28 | 0  | 31 | 0  | 33 | 0  | 36 | 0  | 39 | 0  | 42 | 24    |    |
| 9     |   | 0                                   | 13 | 0 | 15 | 0 | 19 | 0 | 21 | 0 | 24 | 0  | 27 | 0  | 29 | 0  | 31 | 0  | 34 | 0  | 38 | 21    |    |
| 12    |   | 0                                   | 9  | 0 | 11 | 0 | 14 | 0 | 16 | 0 | 19 | 0  | 22 | 0  | 24 | 0  | 27 | 0  | 30 | 0  | 33 | 18    |    |
| 15    |   | 0                                   | 4  | 0 | 7  | 0 | 9  | 0 | 12 | 0 | 14 | 0  | 17 | 0  | 20 | 0  | 22 | 0  | 25 | 0  | 28 | 15    |    |
| 18    | A | 1                                   | 0  | 2 | 0  | 4 | 0  | 7 | 0  | 9 | 0  | 12 | 0  | 15 | 0  | 17 | 0  | 20 | 0  | 23 | 12 |       |    |
| 21    |   | 0                                   | 5  | A | 3  | A | 1  | 2 | 0  | A | 4  | 0  | 7  | 0  | 10 | 0  | 12 | 0  | 15 | 0  | 18 | 9     |    |
| 24    |   | 0                                   | 10 | 0 | 8  | 0 | 6  | A | 3  | A | 1  | 0  | A  | 2  | A  | 4  | 0  | 7  | 0  | 10 | 0  | 13    | 6  |
| 27    |   | 0                                   | 15 | 0 | 13 | 0 | 11 | 0 | 9  | 0 | 6  | A  | 3  | 0  | 1  | A  | 2  | A  | 5  | 0  | 7  | 3     |    |
| 4     |   | 0                                   | 20 | 0 | 19 | 0 | 17 | 0 | 14 | 0 | 12 | 0  | 9  | 0  | 7  | 0  | 4  | 0  | 1  | 0  | A  | 1     | 8  |
| 3     |   | 0                                   | 25 | 0 | 24 | 0 | 22 | 0 | 20 | 0 | 17 | 0  | 15 | 0  | 12 | 0  | 10 | 0  | 7  | 0  | A  | 5     | 27 |
| 6     |   | 0                                   | 31 | 0 | 29 | 0 | 27 | 0 | 25 | 0 | 23 | 0  | 21 | 0  | 18 | 0  | 16 | 0  | 13 | 0  | 11 | 24    |    |
| 9     |   | 0                                   | 36 | 0 | 35 | 0 | 33 | 0 | 31 | 0 | 29 | 0  | 27 | 0  | 24 | 0  | 22 | 0  | 20 | 0  | 17 | 21    |    |
| 12    |   | 0                                   | 42 | 0 | 40 | 0 | 38 | 0 | 37 | 0 | 35 | 0  | 33 | 0  | 30 | 0  | 28 | 0  | 26 | 0  | 23 | 18    |    |
| 15    |   | 0                                   | 47 | 0 | 45 | 0 | 44 | 0 | 42 | 0 | 41 | 0  | 38 | 0  | 36 | 0  | 34 | 0  | 32 | 0  | 29 | 15    |    |
| 18    |   | 0                                   | 52 | 0 | 51 | 0 | 49 | 0 | 48 | 0 | 46 | 0  | 44 | 0  | 42 | 0  | 40 | 0  | 38 | 0  | 35 | 12    |    |
| 21    |   | 0                                   | 57 | 0 | 56 | 0 | 55 | 0 | 53 | 0 | 52 | 0  | 50 | 0  | 48 | 0  | 47 | 0  | 45 | 0  | 42 | 9     |    |
| 24    |   | 1                                   | 3  | 1 | 2  | 1 | 0  | 0 | 59 | 0 | 58 | 0  | 56 | 0  | 54 | 0  | 53 | 0  | 51 | 0  | 49 | 6     |    |
| 27    |   | 1                                   | 8  | 1 | 7  | 1 | 6  | 1 | 4  | 1 | 4  | 1  | 2  | 1  | 0  | 0  | 59 | 0  | 57 | 0  | 55 | 3     |    |
| 5     |   | 1                                   | 13 | 1 | 13 | 1 | 11 | 1 | 10 | 1 | 9  | 1  | 8  | 1  | 6  | 1  | 5  | 1  | 3  | 1  | 1  | 7     |    |
| 3     |   | 1                                   | 18 | 1 | 18 | 1 | 16 | 1 | 16 | 1 | 15 | 1  | 14 | 1  | 12 | 1  | 11 | 1  | 9  | 1  | 7  | 27    |    |
| 6     |   | 1                                   | 23 | 1 | 23 | 1 | 22 | 1 | 22 | 1 | 21 | 1  | 20 | 1  | 18 | 1  | 17 | 1  | 15 | 1  | 13 | 24    |    |
| 9     |   | 1                                   | 28 | 1 | 28 | 1 | 27 | 1 | 27 | 1 | 26 | 1  | 25 | 1  | 24 | 1  | 23 | 1  | 21 | 1  | 19 | 21    |    |
| 12    |   | 1                                   | 33 | 1 | 33 | 1 | 32 | 1 | 32 | 1 | 31 | 1  | 30 | 1  | 29 | 1  | 28 | 1  | 27 | 1  | 25 | 18    |    |
| 15    |   | 1                                   | 37 | 1 | 38 | 1 | 37 | 1 | 37 | 1 | 36 | 1  | 35 | 1  | 34 | 1  | 34 | 1  | 33 | 1  | 31 | 15    |    |
| 18    |   | 1                                   | 42 | 1 | 42 | 1 | 42 | 1 | 41 | 1 | 41 | 1  | 40 | 1  | 39 | 1  | 39 | 1  | 38 | 1  | 37 | 12    |    |
| 21    |   | 1                                   | 46 | 1 | 46 | 1 | 46 | 1 | 46 | 1 | 46 | 1  | 45 | 1  | 44 | 1  | 44 | 1  | 43 | 1  | 42 | 9     |    |
| 24    |   | 1                                   | 50 | 1 | 50 | 1 | 50 | 1 | 50 | 1 | 51 | 1  | 50 | 1  | 49 | 1  | 49 | 1  | 48 | 1  | 47 | 6     |    |
| 27    |   | 1                                   | 54 | 1 | 54 | 1 | 54 | 1 | 55 | 1 | 55 | 1  | 55 | 1  | 54 | 1  | 54 | 1  | 53 | 1  | 52 | 3     |    |
| 6     |   | 1                                   | 57 | 1 | 58 | 1 | 58 | 1 | 59 | 1 | 59 | 1  | 59 | 1  | 59 | 1  | 59 | 1  | 58 | 1  | 57 | 0     |    |
|       |   | Subtrahe                            |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |    |
|       |   | 4                                   | 19 | 4 | 18 | 4 | 17 | 4 | 16 | 4 | 15 | 4  | 14 | 4  | 13 | 4  | 12 | 4  | 11 | 4  | 10 |       |    |
|       |   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |    |

| Anom.                               | Distantia vera ☉ à ☉, vel ab eius ☉ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    | Anom.    |
|-------------------------------------|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----------|
|                                     | 1                                   | 11 | 1 | 12 | 1 | 13 | 1 | 14 | 1 | 15 | 1 | 16 | 1 | 17 | 1 | 18 | 1 | 19 | 1 | 20 |          |
|                                     | Adde                                |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |          |
|                                     | P                                   | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  |          |
| 6                                   | 1                                   | 57 | 1 | 58 | 1 | 58 | 1 | 59 | 1 | 59 | 1 | 59 | 1 | 59 | 1 | 59 | 1 | 58 | 1 | 57 | 6        |
| 3                                   | 2                                   | 1  | 2 | 2  | 2 | 2  | 2 | 3  | 2 | 3  | 2 | 3  | 2 | 3  | 2 | 3  | 2 | 2  | 2 | 2  | 27       |
| 9                                   | 2                                   | 4  | 2 | 5  | 2 | 5  | 2 | 6  | 2 | 7  | 2 | 7  | 2 | 7  | 2 | 7  | 2 | 6  | 2 | 6  | 24       |
| 6                                   | 2                                   | 7  | 2 | 8  | 2 | 8  | 2 | 9  | 2 | 10 | 2 | 11 | 2 | 11 | 2 | 11 | 2 | 10 | 2 | 10 | 21       |
| 12                                  | 2                                   | 9  | 2 | 11 | 2 | 11 | 2 | 12 | 2 | 13 | 2 | 14 | 2 | 14 | 2 | 15 | 2 | 14 | 2 | 14 | 18       |
| 15                                  | 2                                   | 11 | 2 | 13 | 2 | 14 | 2 | 15 | 2 | 16 | 2 | 17 | 2 | 17 | 2 | 18 | 2 | 18 | 2 | 18 | 15       |
| 18                                  | 2                                   | 13 | 2 | 15 | 2 | 16 | 2 | 17 | 2 | 19 | 2 | 19 | 2 | 20 | 2 | 21 | 2 | 21 | 2 | 21 | 12       |
| 21                                  | 2                                   | 15 | 2 | 17 | 2 | 18 | 2 | 20 | 2 | 21 | 2 | 22 | 2 | 23 | 2 | 24 | 2 | 24 | 2 | 24 | 9        |
| 24                                  | 2                                   | 17 | 2 | 19 | 2 | 20 | 2 | 22 | 2 | 23 | 2 | 24 | 2 | 25 | 2 | 26 | 2 | 27 | 2 | 27 | 6        |
| 27                                  | 2                                   | 18 | 2 | 20 | 2 | 22 | 2 | 23 | 2 | 25 | 2 | 26 | 2 | 27 | 2 | 28 | 2 | 29 | 2 | 29 | 3        |
| 7                                   | 2                                   | 19 | 2 | 21 | 2 | 23 | 2 | 24 | 2 | 26 | 2 | 27 | 2 | 28 | 2 | 30 | 2 | 31 | 2 | 31 | 5        |
| 3                                   | 2                                   | 20 | 2 | 22 | 2 | 24 | 2 | 25 | 2 | 27 | 2 | 28 | 2 | 29 | 2 | 31 | 2 | 32 | 2 | 33 | 27       |
| 6                                   | 2                                   | 20 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 29 | 2 | 30 | 2 | 32 | 2 | 33 | 2 | 34 | 24       |
| 9                                   | 2                                   | 20 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 30 | 2 | 31 | 2 | 33 | 2 | 34 | 2 | 35 | 21       |
| 12                                  | 2                                   | 20 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 30 | 2 | 31 | 2 | 33 | 2 | 34 | 2 | 36 | 18       |
| 15                                  | 2                                   | 19 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 30 | 2 | 31 | 2 | 33 | 2 | 35 | 2 | 36 | 15       |
| 18                                  | 2                                   | 19 | 2 | 21 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 30 | 2 | 31 | 2 | 33 | 2 | 35 | 2 | 36 | 12       |
| 21                                  | 2                                   | 18 | 2 | 20 | 2 | 23 | 2 | 25 | 2 | 27 | 2 | 29 | 2 | 31 | 2 | 33 | 2 | 35 | 2 | 36 | 9        |
| 24                                  | 2                                   | 16 | 2 | 19 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 30 | 2 | 32 | 2 | 34 | 2 | 35 | 6        |
| 27                                  | 2                                   | 15 | 2 | 18 | 2 | 20 | 2 | 23 | 2 | 25 | 2 | 27 | 2 | 29 | 2 | 31 | 2 | 33 | 2 | 34 | 3        |
| 8                                   | 2                                   | 13 | 2 | 16 | 2 | 18 | 2 | 21 | 2 | 23 | 2 | 25 | 2 | 28 | 2 | 30 | 2 | 32 | 2 | 33 | 4        |
| 3                                   | 2                                   | 11 | 2 | 14 | 2 | 16 | 2 | 19 | 2 | 21 | 2 | 23 | 2 | 26 | 2 | 28 | 2 | 30 | 2 | 32 | 27       |
| 6                                   | 2                                   | 9  | 2 | 12 | 2 | 14 | 2 | 17 | 2 | 19 | 2 | 21 | 2 | 24 | 2 | 26 | 2 | 28 | 2 | 30 | 24       |
| 9                                   | 2                                   | 6  | 2 | 9  | 2 | 11 | 2 | 14 | 2 | 17 | 2 | 19 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 21       |
| 12                                  | 2                                   | 3  | 2 | 6  | 2 | 8  | 2 | 11 | 2 | 14 | 2 | 16 | 2 | 19 | 2 | 21 | 2 | 24 | 2 | 26 | 18       |
| 15                                  | 2                                   | 0  | 2 | 3  | 2 | 5  | 2 | 8  | 2 | 11 | 2 | 13 | 2 | 16 | 2 | 18 | 2 | 21 | 2 | 23 | 15       |
| 18                                  | 1                                   | 57 | 2 | 0  | 2 | 2  | 2 | 5  | 2 | 8  | 2 | 10 | 2 | 13 | 2 | 15 | 2 | 18 | 2 | 20 | 12       |
| 21                                  | 1                                   | 54 | 1 | 57 | 1 | 59 | 2 | 2  | 2 | 4  | 2 | 7  | 2 | 10 | 2 | 12 | 2 | 15 | 2 | 17 | 9        |
| 24                                  | 1                                   | 50 | 1 | 53 | 1 | 56 | 1 | 58 | 2 | 1  | 2 | 4  | 2 | 6  | 2 | 9  | 2 | 12 | 2 | 14 | 6        |
| 27                                  | 1                                   | 47 | 1 | 50 | 1 | 53 | 1 | 55 | 1 | 58 | 2 | 0  | 2 | 3  | 2 | 5  | 2 | 8  | 2 | 10 | 3        |
| 9                                   | 1                                   | 43 | 1 | 46 | 1 | 49 | 1 | 51 | 1 | 54 | 1 | 56 | 1 | 59 | 2 | 1  | 2 | 4  | 2 | 6  | 3        |
| conquata                            | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    | conquata |
|                                     | 4                                   | 19 | 4 | 18 | 4 | 17 | 4 | 16 | 4 | 15 | 4 | 14 | 4 | 13 | 4 | 12 | 4 | 11 | 4 | 10 |          |
| Distantia vera ☉ à ☉, vel ab eius ☉ |                                     |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |          |



Composita & absoluta Luna.

| Anom.    |      |
|----------|------|
| 6        | 1 20 |
| 27       | 1 57 |
| 24       | 2 6  |
| 21       | 2 10 |
| 18       | 2 14 |
| 15       | 2 18 |
| 12       | 2 21 |
| 9        | 2 24 |
| 6        | 2 27 |
| 3        | 2 29 |
| 5        | 2 31 |
| 27       | 2 33 |
| 24       | 2 34 |
| 21       | 2 35 |
| 18       | 2 36 |
| 15       | 2 36 |
| 12       | 2 36 |
| 9        | 2 36 |
| 6        | 2 35 |
| 3        | 2 34 |
| 4        | 2 33 |
| 27       | 2 32 |
| 24       | 2 30 |
| 21       | 2 28 |
| 18       | 2 26 |
| 15       | 2 23 |
| 12       | 2 20 |
| 9        | 2 17 |
| 6        | 2 14 |
| 3        | 2 10 |
| 3        | 2 6  |
| corquata | 1 4  |

| Distantia vera ☉ à ☿, vel ab eius ☿ |    |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|-------------------------------------|----|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|--|
|                                     |    | 1                                   | 11 | 1  | 12 | 1  | 13 | 1  | 14 | 1  | 15 | 1  | 16 | 1  | 17 | 1  | 18 | 1  | 19 | 1  | 20 |  |  |
|                                     |    | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                                     |    | P                                   | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  |  |  |
| 9                                   | 1  | 43                                  | 1  | 46 | 1  | 49 | 1  | 51 | 1  | 54 | 1  | 56 | 1  | 59 | 2  | 1  | 2  | 4  | 2  | 6  | 3  |  |  |
|                                     | 3  | 39                                  | 1  | 42 | 1  | 45 | 1  | 47 | 1  | 50 | 1  | 52 | 1  | 55 | 1  | 57 | 2  | 0  | 2  | 2  | 27 |  |  |
|                                     | 6  | 34                                  | 1  | 37 | 1  | 40 | 1  | 42 | 1  | 45 | 1  | 48 | 1  | 51 | 1  | 53 | 1  | 55 | 1  | 58 | 24 |  |  |
| 9                                   | 1  | 30                                  | 1  | 33 | 1  | 36 | 1  | 38 | 1  | 41 | 1  | 44 | 1  | 46 | 1  | 48 | 1  | 51 | 1  | 53 | 21 |  |  |
|                                     | 12 | 26                                  | 1  | 29 | 1  | 31 | 1  | 34 | 1  | 36 | 1  | 39 | 1  | 41 | 1  | 43 | 1  | 46 | 1  | 48 | 18 |  |  |
|                                     | 15 | 22                                  | 1  | 24 | 1  | 27 | 1  | 30 | 1  | 32 | 1  | 34 | 1  | 37 | 1  | 39 | 1  | 41 | 1  | 43 | 15 |  |  |
| 18                                  | 1  | 18                                  | 1  | 20 | 1  | 23 | 1  | 25 | 1  | 27 | 1  | 29 | 1  | 32 | 1  | 34 | 1  | 36 | 1  | 38 | 12 |  |  |
|                                     | 21 | 13                                  | 1  | 15 | 1  | 18 | 1  | 20 | 1  | 22 | 1  | 24 | 1  | 27 | 1  | 29 | 1  | 31 | 1  | 33 | 9  |  |  |
|                                     | 24 | 8                                   | 1  | 10 | 1  | 13 | 1  | 15 | 1  | 17 | 1  | 19 | 1  | 22 | 1  | 24 | 1  | 26 | 1  | 28 | 6  |  |  |
| 27                                  | 1  | 3                                   | 1  | 5  | 1  | 8  | 1  | 10 | 1  | 12 | 1  | 14 | 1  | 17 | 1  | 19 | 1  | 21 | 1  | 23 | 3  |  |  |
|                                     | 10 | 58                                  | 0  | 55 | 0  | 52 | 0  | 54 | 0  | 56 | 0  | 58 | 1  | 0  | 1  | 2  | 1  | 4  | 1  | 6  | 24 |  |  |
|                                     | 3  | 53                                  | 0  | 50 | 0  | 47 | 0  | 49 | 0  | 51 | 0  | 53 | 0  | 55 | 0  | 57 | 0  | 59 | 1  | 0  | 21 |  |  |
| 6                                   | 0  | 48                                  | 0  | 45 | 0  | 42 | 0  | 44 | 0  | 46 | 0  | 48 | 0  | 50 | 0  | 51 | 0  | 53 | 0  | 55 | 18 |  |  |
|                                     | 9  | 44                                  | 0  | 40 | 0  | 37 | 0  | 39 | 0  | 40 | 0  | 43 | 0  | 45 | 0  | 46 | 0  | 48 | 0  | 49 | 15 |  |  |
|                                     | 12 | 39                                  | 0  | 35 | 0  | 32 | 0  | 34 | 0  | 35 | 0  | 37 | 0  | 39 | 0  | 40 | 0  | 42 | 0  | 43 | 12 |  |  |
| 18                                  | 0  | 29                                  | 0  | 25 | 0  | 22 | 0  | 24 | 0  | 25 | 0  | 27 | 0  | 29 | 0  | 30 | 0  | 32 | 0  | 33 | 9  |  |  |
|                                     | 21 | 24                                  | 0  | 20 | 0  | 17 | 0  | 19 | 0  | 20 | 0  | 22 | 0  | 23 | 0  | 24 | 0  | 26 | 0  | 27 | 6  |  |  |
|                                     | 24 | 19                                  | 0  | 15 | 0  | 12 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | 20 | 0  | 21 | 3  |  |  |
| 27                                  | 0  | 15                                  | 0  | 10 | 0  | 7  | 0  | 9  | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 15 | 0  | 16 | 1  |  |  |
|                                     | 3  | 10                                  | 0  | 6  | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 24 |  |  |
|                                     | 6  | 5                                   | 0  | 1  | 0  | 2  | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 21 |  |  |
| 12                                  | 0  | 8                                   | 0  | 4  | 0  | 1  | 0  | 2  | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 18 |  |  |
|                                     | 15 | 12                                  | 0  | 7  | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 15 |  |  |
|                                     | 18 | 16                                  | 0  | 10 | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 0  | 11 | 0  | 12 | 12 |  |  |
| 21                                  | 0  | 20                                  | 0  | 11 | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 9  |  |  |
|                                     | 24 | 24                                  | 0  | 15 | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 6  |  |  |
|                                     | 27 | 28                                  | 0  | 19 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | 19 | 0  | 20 | 0  | 21 | 3  |  |  |
| 12                                  | 0  | 31                                  | 0  | 20 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | 19 | 0  | 20 | 0  |  |  |
|                                     | 3  | 31                                  | 0  | 20 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | 19 | 0  | 20 | 0  |  |  |
|                                     | 6  | 31                                  | 0  | 20 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | 19 | 0  | 20 | 0  |  |  |
|                                     |    | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |
|                                     |    | 4                                   | 19 | 4  | 18 | 4  | 17 | 4  | 16 | 4  | 15 | 4  | 14 | 4  | 13 | 4  | 12 | 4  | 11 | 4  | 10 |  |  |
|                                     |    | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |  |

| Anom.                               | Distantia vera ☉ à ☉, vel ab eius ☉ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    | Anom.    |
|-------------------------------------|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----------|
|                                     | I                                   | 21 | I | 22 | I | 23 | I | 24 | I | 25 | I | 26 | I | 27 | I | 28 | I | 29 | 2 | 0  |    |          |
|                                     | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |          |
|                                     | P                                   | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P  | /        |
| 0                                   | 0                                   | 30 | 0 | 30 | 0 | 29 | 0 | 29 | 0 | 28 | 0 | 28 | 0 | 27 | 0 | 27 | 0 | 26 | 0 | 26 | 12 |          |
| 3                                   | 0                                   | 34 | 0 | 34 | 0 | 34 | 0 | 34 | 0 | 33 | 0 | 33 | 0 | 32 | 0 | 32 | 0 | 32 | 0 | 32 | 27 |          |
| 6                                   | 0                                   | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 38 | 0 | 37 | 0 | 37 | 0 | 37 | 0 | 37 | 24 |          |
| 9                                   | 0                                   | 42 | 0 | 42 | 0 | 43 | 0 | 43 | 0 | 42 | 0 | 43 | 0 | 43 | 0 | 42 | 0 | 42 | 0 | 42 | 21 |          |
| 12                                  | 0                                   | 46 | 0 | 46 | 0 | 47 | 0 | 47 | 0 | 47 | 0 | 47 | 0 | 47 | 0 | 47 | 0 | 47 | 0 | 47 | 18 |          |
| 15                                  | 0                                   | 50 | 0 | 50 | 0 | 51 | 0 | 51 | 0 | 51 | 0 | 51 | 0 | 52 | 0 | 52 | 0 | 52 | 0 | 52 | 15 |          |
| 18                                  | 0                                   | 54 | 0 | 54 | 0 | 55 | 0 | 55 | 0 | 55 | 0 | 55 | 0 | 56 | 0 | 56 | 0 | 56 | 0 | 56 | 12 |          |
| 21                                  | 0                                   | 57 | 0 | 57 | 0 | 58 | 0 | 59 | 0 | 59 | 0 | 59 | 0 | 59 | 0 | 59 | 0 | 59 | 0 | 59 | 9  |          |
| 24                                  | 1                                   | 0  | 1 | 0  | 1 | 1  | 2 | 1  | 2 | 1  | 3 | 1  | 4 | 1  | 4 | 1  | 4 | 1  | 5 | 6  | 6  |          |
| 27                                  | 1                                   | 3  | 1 | 3  | 1 | 4  | 1 | 5  | 1 | 6  | 1 | 6  | 1 | 7  | 1 | 8  | 1 | 8  | 1 | 9  | 3  |          |
| 1                                   | 1                                   | 5  | 1 | 6  | 1 | 7  | 1 | 8  | 1 | 9  | 1 | 9  | 1 | 10 | 1 | 11 | 1 | 11 | 1 | 12 | 11 |          |
| 3                                   | 1                                   | 7  | 1 | 8  | 1 | 9  | 1 | 11 | 1 | 12 | 1 | 12 | 1 | 13 | 1 | 14 | 1 | 14 | 1 | 16 | 27 |          |
| 6                                   | 1                                   | 9  | 1 | 10 | 1 | 11 | 1 | 13 | 1 | 14 | 1 | 15 | 1 | 16 | 1 | 17 | 1 | 17 | 1 | 19 | 24 |          |
| 9                                   | 1                                   | 11 | 1 | 12 | 1 | 13 | 1 | 15 | 1 | 16 | 1 | 17 | 1 | 18 | 1 | 19 | 1 | 20 | 1 | 22 | 21 |          |
| 12                                  | 1                                   | 12 | 1 | 13 | 1 | 15 | 1 | 16 | 1 | 17 | 1 | 19 | 1 | 20 | 1 | 21 | 1 | 23 | 1 | 24 | 18 |          |
| 15                                  | 1                                   | 13 | 1 | 14 | 1 | 16 | 1 | 18 | 1 | 19 | 1 | 21 | 1 | 22 | 1 | 23 | 1 | 25 | 1 | 26 | 15 |          |
| 18                                  | 1                                   | 14 | 1 | 15 | 1 | 17 | 1 | 19 | 1 | 20 | 1 | 22 | 1 | 24 | 1 | 25 | 1 | 27 | 1 | 28 | 12 |          |
| 21                                  | 1                                   | 14 | 1 | 16 | 1 | 18 | 1 | 20 | 1 | 21 | 1 | 23 | 1 | 25 | 1 | 26 | 1 | 28 | 1 | 30 | 9  |          |
| 24                                  | 1                                   | 14 | 1 | 16 | 1 | 18 | 1 | 20 | 1 | 22 | 1 | 24 | 1 | 26 | 1 | 27 | 1 | 29 | 1 | 31 | 6  |          |
| 27                                  | 1                                   | 14 | 1 | 16 | 1 | 18 | 1 | 20 | 1 | 22 | 1 | 24 | 1 | 26 | 1 | 28 | 1 | 30 | 1 | 32 | 3  |          |
| 2                                   | 1                                   | 14 | 1 | 16 | 1 | 18 | 1 | 20 | 1 | 22 | 1 | 24 | 1 | 26 | 1 | 28 | 1 | 30 | 1 | 32 | 10 |          |
| 3                                   | 1                                   | 13 | 1 | 16 | 1 | 18 | 1 | 20 | 1 | 22 | 1 | 24 | 1 | 26 | 1 | 28 | 1 | 30 | 1 | 32 | 27 |          |
| 6                                   | 1                                   | 12 | 1 | 15 | 1 | 17 | 1 | 19 | 1 | 22 | 1 | 24 | 1 | 26 | 1 | 28 | 1 | 30 | 1 | 32 | 24 |          |
| 9                                   | 1                                   | 11 | 1 | 14 | 1 | 16 | 1 | 18 | 1 | 21 | 1 | 23 | 1 | 25 | 1 | 28 | 1 | 30 | 1 | 32 | 21 |          |
| 12                                  | 1                                   | 9  | 1 | 12 | 1 | 14 | 1 | 17 | 1 | 20 | 1 | 22 | 1 | 24 | 1 | 27 | 1 | 29 | 1 | 31 | 18 |          |
| 15                                  | 1                                   | 7  | 1 | 10 | 1 | 12 | 1 | 15 | 1 | 18 | 1 | 20 | 1 | 23 | 1 | 26 | 1 | 28 | 1 | 30 | 15 |          |
| 18                                  | 1                                   | 5  | 1 | 8  | 1 | 10 | 1 | 13 | 1 | 16 | 1 | 18 | 1 | 21 | 1 | 24 | 1 | 26 | 1 | 29 | 12 |          |
| 21                                  | 1                                   | 2  | 1 | 5  | 1 | 7  | 1 | 10 | 1 | 13 | 1 | 16 | 1 | 19 | 1 | 22 | 1 | 24 | 1 | 27 | 9  |          |
| 24                                  | 0                                   | 59 | 1 | 2  | 1 | 4  | 1 | 7  | 1 | 10 | 1 | 13 | 1 | 16 | 1 | 19 | 1 | 21 | 1 | 24 | 6  |          |
| 27                                  | 0                                   | 56 | 0 | 59 | 1 | 1  | 1 | 4  | 1 | 7  | 1 | 10 | 1 | 13 | 1 | 16 | 1 | 19 | 1 | 22 | 3  |          |
| 3                                   | 0                                   | 52 | 0 | 55 | 0 | 58 | 1 | 1  | 1 | 4  | 1 | 7  | 1 | 10 | 1 | 13 | 1 | 16 | 1 | 19 | 9  |          |
| Adde                                |                                     |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    | conquata |
| Distantia vera ☉ à ☉, vel ab eius ☉ |                                     |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |          |
| 4                                   | 9                                   | 4  | 8 | 4  | 7 | 4  | 6 | 4  | 5 | 4  | 4 | 4  | 3 | 4  | 2 | 4  | 1 | 4  | 0 |    |    |          |



# Ac Tab. Secundorum Mobilium.

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Composita & absoluta Lune.

|    |   | Distantia vera ☉ à ☽, vel ab eius ♀ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom. |
|----|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|    |   | 1                                   | 21 | 1  | 22 | 1  | 23 | 1  | 24 | 1  | 25 | 1  | 26 | 1  | 27 | 1  | 28 | 1  | 29 | 2  | 0  | Anom. |
|    |   | Subtrahit                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| P  | i | P                                   | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  |       |
| 3  | 0 | 52                                  | 0  | 55 | 0  | 58 | 1  | 1  | 4  | 1  | 7  | 1  | 10 | 1  | 13 | 0  | 16 | 1  | 19 | 1  | 9  |       |
| 3  | 0 | 48                                  | 0  | 52 | 0  | 45 | 0  | 58 | 1  | 1  | 4  | 1  | 7  | 1  | 10 | 0  | 13 | 1  | 16 | 1  | 27 |       |
| 6  | 0 | 44                                  | 0  | 48 | 0  | 51 | 0  | 54 | 0  | 57 | 1  | 0  | 1  | 3  | 1  | 6  | 1  | 9  | 1  | 12 | 24 |       |
| 9  | 0 | 40                                  | 0  | 44 | 0  | 47 | 0  | 50 | 0  | 53 | 0  | 56 | 0  | 59 | 1  | 2  | 1  | 5  | 1  | 8  | 21 |       |
| 12 | 0 | 36                                  | 0  | 39 | 0  | 42 | 0  | 45 | 0  | 48 | 0  | 52 | 0  | 55 | 0  | 58 | 1  | 1  | 1  | 4  | 18 |       |
| 15 | 0 | 31                                  | 0  | 34 | 0  | 37 | 0  | 40 | 0  | 44 | 0  | 47 | 0  | 50 | 0  | 53 | 0  | 57 | 1  | 0  | 15 |       |
| 18 | 0 | 26                                  | 0  | 29 | 0  | 32 | 0  | 35 | 0  | 39 | 0  | 42 | 0  | 45 | 0  | 48 | 0  | 52 | 0  | 55 | 12 |       |
| 21 | 0 | 20                                  | 0  | 24 | 0  | 27 | 0  | 30 | 0  | 34 | 0  | 37 | 0  | 40 | 0  | 43 | 0  | 47 | 0  | 50 | 9  |       |
| 24 | 0 | 15                                  | 0  | 18 | 0  | 22 | 0  | 25 | 0  | 28 | 0  | 31 | 0  | 34 | 0  | 37 | 0  | 41 | 0  | 44 | 6  |       |
| 27 | 0 | 9                                   | 0  | 13 | 0  | 16 | 0  | 19 | 0  | 22 | 0  | 26 | 0  | 29 | 0  | 32 | 0  | 36 | 0  | 39 | 3  |       |
| 4  | A | 4                                   | 0  | 7  | 0  | 10 | 0  | 13 | 0  | 16 | 0  | 20 | 0  | 23 | 0  | 26 | 0  | 30 | 0  | 33 | 8  |       |
| 3  | 0 | 2                                   | 0  | 5  | 0  | 8  | 0  | 11 | 0  | 14 | 0  | 17 | 0  | 20 | 0  | 24 | 0  | 27 | 0  | 30 | 27 |       |
| 6  | 0 | 8                                   | 0  | 4  | 0  | 1  | 0  | A  | 5  | 0  | 7  | 0  | 10 | 0  | 14 | 0  | 17 | 0  | 20 | 24 |    |       |
| 9  | 0 | 14                                  | 0  | 11 | 0  | 8  | 0  | A  | 6  | 0  | A  | 4  | 0  | 8  | 0  | 11 | 0  | 14 | 0  | 17 | 21 |       |
| 12 | 0 | 21                                  | 0  | 18 | 0  | 15 | 0  | 12 | 0  | 9  | 0  | A  | 6  | 0  | A  | 3  | 0  | 1  | 0  | 14 | 18 |       |
| 15 | 0 | 27                                  | 0  | 24 | 0  | 21 | 0  | 18 | 0  | 15 | 0  | 12 | 0  | 9  | 0  | A  | 6  | 0  | A  | 4  | 15 |       |
| 18 | 0 | 33                                  | 0  | 30 | 0  | 27 | 0  | 25 | 0  | 22 | 0  | 19 | 0  | 16 | 0  | 13 | 0  | 10 | 0  | 7  | 13 |       |
| 21 | 0 | 40                                  | 0  | 37 | 0  | 34 | 0  | 32 | 0  | 29 | 0  | 26 | 0  | 23 | 0  | 20 | 0  | 17 | 0  | 14 | 9  |       |
| 24 | 0 | 46                                  | 0  | 43 | 0  | 41 | 0  | 38 | 0  | 36 | 0  | 33 | 0  | 30 | 0  | 27 | 0  | 24 | 0  | 21 | 6  |       |
| 27 | 0 | 53                                  | 0  | 50 | 0  | 48 | 0  | 45 | 0  | 42 | 0  | 40 | 0  | 37 | 0  | 34 | 0  | 31 | 0  | 28 | 3  |       |
| 5  | 0 | 59                                  | 0  | 57 | 0  | 55 | 0  | 52 | 0  | 49 | 0  | 46 | 0  | 44 | 0  | 41 | 0  | 38 | 0  | 35 | 7  |       |
| 3  | 1 | 6                                   | 1  | 3  | 1  | 1  | 0  | 58 | 0  | 56 | 0  | 53 | 0  | 51 | 0  | 48 | 0  | 46 | 0  | 43 | 27 |       |
| 6  | 1 | 12                                  | 1  | 10 | 1  | 7  | 1  | 5  | 1  | 2  | 1  | 0  | 58 | 0  | 55 | 0  | 53 | 0  | 50 | 24 |    |       |
| 9  | 1 | 18                                  | 1  | 16 | 1  | 14 | 1  | 12 | 1  | 9  | 1  | 7  | 1  | 5  | 1  | 2  | 1  | 0  | 57 | 21 |    |       |
| 12 | 1 | 24                                  | 1  | 22 | 1  | 20 | 1  | 18 | 1  | 16 | 1  | 14 | 1  | 12 | 1  | 9  | 1  | 7  | 1  | 4  | 18 |       |
| 15 | 1 | 30                                  | 1  | 29 | 1  | 27 | 1  | 25 | 1  | 23 | 1  | 20 | 1  | 18 | 1  | 16 | 1  | 14 | 1  | 11 | 15 |       |
| 18 | 1 | 36                                  | 1  | 35 | 1  | 33 | 1  | 31 | 1  | 29 | 1  | 27 | 1  | 25 | 1  | 23 | 1  | 21 | 1  | 18 | 12 |       |
| 21 | 1 | 42                                  | 1  | 41 | 1  | 39 | 1  | 37 | 1  | 35 | 1  | 33 | 1  | 31 | 1  | 29 | 1  | 27 | 1  | 25 | 9  |       |
| 24 | 1 | 47                                  | 1  | 46 | 1  | 44 | 1  | 43 | 1  | 41 | 1  | 39 | 1  | 37 | 1  | 35 | 1  | 33 | 1  | 31 | 6  |       |
| 27 | 1 | 52                                  | 1  | 51 | 1  | 50 | 1  | 49 | 1  | 47 | 1  | 46 | 1  | 44 | 1  | 42 | 1  | 40 | 1  | 38 | 3  |       |
| 6  | 1 | 57                                  | 1  | 56 | 1  | 55 | 1  | 54 | 1  | 53 | 1  | 52 | 1  | 50 | 1  | 48 | 1  | 46 | 1  | 44 | 6  |       |
|    |   | Subtrahit                           |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
|    |   | 4                                   | 9  | 4  | 8  | 4  | 7  | 4  | 6  | 4  | 5  | 4  | 4  | 4  | 3  | 4  | 2  | 4  | 1  | 4  | 0  |       |
|    |   | Distantia vera ☉ à ☽, vel ab eius ♀ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
|    |   |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |



| Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom. |
|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
| Anom.                               | 1  | 21 | 1  | 22 | 1  | 23 | 1  | 24 | 1  | 25 | 1  | 26 | 1  | 27 | 1  | 28 | 1  | 29 | 2  | 0  |       |
| Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
|                                     | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  |       |
| 6                                   | 1  | 57 | 1  | 56 | 1  | 55 | 1  | 54 | 1  | 53 | 1  | 52 | 1  | 50 | 1  | 48 | 1  | 46 | 1  | 44 |       |
| 3                                   | 2  | 2  | 2  | 1  | 2  | 0  | 1  | 59 | 1  | 58 | 1  | 57 | 1  | 56 | 1  | 54 | 1  | 52 | 1  | 50 |       |
| 6                                   | 2  | 6  | 2  | 5  | 2  | 5  | 2  | 4  | 2  | 3  | 2  | 2  | 2  | 1  | 1  | 59 | 1  | 58 | 1  | 56 |       |
| 9                                   | 2  | 10 | 2  | 10 | 2  | 10 | 2  | 9  | 2  | 8  | 2  | 7  | 2  | 6  | 2  | 5  | 2  | 4  | 2  | 2  |       |
| 12                                  | 2  | 14 | 2  | 14 | 2  | 14 | 2  | 13 | 2  | 12 | 2  | 12 | 2  | 11 | 2  | 10 | 2  | 9  | 2  | 7  |       |
| 15                                  | 2  | 18 | 2  | 18 | 2  | 18 | 2  | 17 | 2  | 17 | 2  | 16 | 2  | 16 | 2  | 15 | 2  | 14 | 2  | 12 |       |
| 18                                  | 2  | 22 | 2  | 22 | 2  | 22 | 2  | 21 | 2  | 21 | 2  | 20 | 2  | 20 | 2  | 19 | 2  | 18 | 2  | 17 |       |
| 21                                  | 2  | 25 | 2  | 25 | 2  | 25 | 2  | 25 | 2  | 25 | 2  | 24 | 2  | 24 | 2  | 23 | 2  | 22 | 2  | 21 |       |
| 24                                  | 2  | 28 | 2  | 28 | 2  | 28 | 2  | 28 | 2  | 28 | 2  | 28 | 2  | 27 | 2  | 26 | 2  | 26 | 2  | 25 |       |
| 27                                  | 2  | 30 | 2  | 30 | 2  | 31 | 2  | 31 | 2  | 31 | 2  | 31 | 2  | 30 | 2  | 30 | 2  | 30 | 2  | 29 |       |
| 7                                   | 2  | 32 | 2  | 32 | 2  | 33 | 2  | 34 | 2  | 34 | 2  | 34 | 2  | 33 | 2  | 33 | 2  | 33 | 2  | 32 |       |
| 3                                   | 2  | 34 | 2  | 34 | 2  | 35 | 2  | 36 | 2  | 36 | 2  | 36 | 2  | 36 | 2  | 36 | 2  | 36 | 2  | 35 |       |
| 6                                   | 2  | 35 | 2  | 36 | 2  | 37 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 |       |
| 9                                   | 2  | 36 | 2  | 37 | 2  | 38 | 2  | 39 | 2  | 39 | 2  | 40 | 2  | 40 | 2  | 40 | 2  | 40 | 2  | 40 |       |
| 12                                  | 2  | 37 | 2  | 38 | 2  | 39 | 2  | 40 | 2  | 40 | 2  | 41 | 2  | 42 | 2  | 42 | 2  | 42 | 2  | 42 |       |
| 15                                  | 2  | 38 | 2  | 39 | 2  | 40 | 2  | 41 | 2  | 41 | 2  | 42 | 2  | 43 | 2  | 43 | 2  | 43 | 2  | 44 |       |
| 18                                  | 2  | 38 | 2  | 39 | 2  | 40 | 2  | 41 | 2  | 42 | 2  | 43 | 2  | 44 | 2  | 44 | 2  | 45 | 2  | 45 |       |
| 21                                  | 2  | 38 | 2  | 39 | 2  | 40 | 2  | 41 | 2  | 42 | 2  | 44 | 2  | 44 | 2  | 45 | 2  | 46 | 2  | 46 |       |
| 24                                  | 2  | 37 | 2  | 38 | 2  | 40 | 2  | 41 | 2  | 42 | 2  | 44 | 2  | 44 | 2  | 45 | 2  | 46 | 2  | 46 |       |
| 27                                  | 2  | 36 | 2  | 38 | 2  | 40 | 2  | 41 | 2  | 42 | 2  | 44 | 2  | 44 | 2  | 45 | 2  | 46 | 2  | 46 |       |
| 8                                   | 2  | 35 | 2  | 37 | 2  | 39 | 2  | 40 | 2  | 41 | 2  | 43 | 2  | 44 | 2  | 44 | 2  | 45 | 2  | 46 |       |
| 3                                   | 2  | 34 | 2  | 36 | 2  | 37 | 2  | 39 | 2  | 40 | 2  | 42 | 2  | 43 | 2  | 43 | 2  | 45 | 2  | 46 |       |
| 6                                   | 2  | 32 | 2  | 34 | 2  | 35 | 2  | 37 | 2  | 39 | 2  | 40 | 2  | 42 | 2  | 42 | 2  | 44 | 2  | 45 |       |
| 9                                   | 2  | 30 | 2  | 32 | 2  | 33 | 2  | 35 | 2  | 37 | 2  | 38 | 2  | 40 | 2  | 41 | 2  | 43 | 2  | 44 |       |
| 12                                  | 2  | 28 | 2  | 30 | 2  | 31 | 2  | 33 | 2  | 35 | 2  | 36 | 2  | 38 | 2  | 39 | 2  | 41 | 2  | 42 |       |
| 15                                  | 2  | 25 | 2  | 27 | 2  | 29 | 2  | 31 | 2  | 33 | 2  | 34 | 2  | 36 | 2  | 37 | 2  | 39 | 2  | 40 |       |
| 18                                  | 2  | 22 | 2  | 24 | 2  | 26 | 2  | 28 | 2  | 30 | 2  | 31 | 2  | 33 | 2  | 35 | 2  | 36 | 2  | 37 |       |
| 21                                  | 2  | 19 | 2  | 21 | 2  | 23 | 2  | 25 | 2  | 27 | 2  | 28 | 2  | 30 | 2  | 32 | 2  | 33 | 2  | 35 |       |
| 24                                  | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 24 | 2  | 25 | 2  | 27 | 2  | 29 | 2  | 30 | 2  | 32 |       |
| 27                                  | 1  | 12 | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 24 | 2  | 26 | 2  | 27 | 2  | 29 |       |
| 9                                   | 2  | 8  | 2  | 10 | 2  | 12 | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 23 | 2  | 25 |       |
| Subtrahe                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
|                                     | 4  | 9  | 4  | 8  | 4  | 7  | 4  | 6  | 4  | 5  | 4  | 4  | 4  | 3  | 4  | 2  | 4  | 1  | 4  | 0  |       |
| Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |
| corrupta                            | 6  | 27 | 24 | 21 | 18 | 15 | 12 | 9  | 6  | 3  | 0  | 27 | 24 | 21 | 18 | 15 | 12 | 9  | 6  | 3  |       |
| corrupta                            | 9  | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 | 3  |       |
| corrupta                            | 10 | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 | 11 | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 |       |
| corrupta                            | 12 | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 | 12 | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 |       |



## Composita &amp; absoluta Luna.

| Anom.    |   | Distantia vera ☉ à ☿, vel ab eius ☿ |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | Anom. |  |
|----------|---|-------------------------------------|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|-------|--|
|          |   | 1                                   | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |       |  |
|          |   | Adde                                |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |  |
|          |   | P                                   | P | P | P | P | P | P | P | P | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |       |  |
| 19       | 2 | 0                                   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 3     |  |
| 6        | 1 | 44                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 27    |  |
| 2        | 1 | 50                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |  |
| 8        | 1 | 56                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 24    |  |
| 4        | 2 | 2                                   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 21    |  |
| 9        | 2 | 7                                   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 18    |  |
| 4        | 2 | 12                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 15    |  |
| 8        | 2 | 17                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 12    |  |
| 2        | 2 | 21                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 9     |  |
| 6        | 2 | 25                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 6     |  |
| 0        | 2 | 29                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 3     |  |
| 3        | 2 | 32                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 5     |  |
| 6        | 2 | 35                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 27    |  |
| 8        | 2 | 38                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 24    |  |
| 10       | 2 | 40                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 21    |  |
| 12       | 2 | 42                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 18    |  |
| 14       | 2 | 44                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 15    |  |
| 15       | 2 | 45                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 12    |  |
| 16       | 2 | 46                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 9     |  |
| 16       | 2 | 46                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 6     |  |
| 16       | 2 | 46                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 3     |  |
| 15       | 2 | 46                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 4     |  |
| 15       | 2 | 46                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 27    |  |
| 14       | 2 | 45                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 24    |  |
| 13       | 2 | 44                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 21    |  |
| 11       | 2 | 42                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 18    |  |
| 9        | 2 | 40                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 15    |  |
| 6        | 2 | 37                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 12    |  |
| 3        | 2 | 35                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 9     |  |
| 0        | 2 | 32                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 6     |  |
| 27       | 2 | 29                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 3     |  |
| 23       | 2 | 25                                  |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    | 3     |  |
| 1        | 4 | 0                                   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |  |
| conquata |   |                                     |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |       |  |

| Anom.    |  | Distantia vera ☉ à ☿, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    | Anom. |  |
|----------|--|-------------------------------------|----|---|----|---|----|---|----|---|----|----|----|----|----|----|----|----|----|----|----|-------|--|
|          |  | 1                                   | 2  | 3 | 4  | 5 | 6  | 7 | 8  | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |       |  |
|          |  | Adde                                |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |  |
|          |  | P                                   | P  | P | P  | P | P  | P | P  | P | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |       |  |
| 9        |  | 2                                   | 8  | 2 | 10 | 2 | 12 | 2 | 14 | 2 | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 23 | 2  | 25 | 3     |  |
| 3        |  | 2                                   | 4  | 2 | 6  | 2 | 8  | 2 | 10 | 2 | 12 | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 19 | 2  | 21 | 27    |  |
| 6        |  | 2                                   | 0  | 2 | 2  | 2 | 4  | 2 | 6  | 2 | 8  | 2  | 10 | 2  | 12 | 2  | 14 | 2  | 15 | 2  | 17 | 24    |  |
| 9        |  | 1                                   | 56 | 1 | 58 | 2 | 0  | 2 | 2  | 2 | 4  | 2  | 6  | 2  | 8  | 2  | 10 | 2  | 10 | 2  | 13 | 21    |  |
| 12       |  | 1                                   | 51 | 1 | 53 | 1 | 55 | 1 | 57 | 1 | 59 | 2  | 1  | 2  | 3  | 2  | 5  | 2  | 6  | 2  | 8  | 18    |  |
| 15       |  | 1                                   | 46 | 1 | 48 | 1 | 50 | 1 | 52 | 1 | 54 | 1  | 56 | 1  | 58 | 2  | 0  | 2  | 1  | 2  | 3  | 15    |  |
| 18       |  | 1                                   | 41 | 1 | 43 | 1 | 45 | 1 | 47 | 1 | 49 | 1  | 51 | 1  | 53 | 1  | 55 | 1  | 56 | 1  | 58 | 12    |  |
| 21       |  | 1                                   | 35 | 1 | 38 | 1 | 40 | 1 | 42 | 1 | 44 | 1  | 46 | 1  | 48 | 1  | 50 | 1  | 51 | 1  | 53 | 9     |  |
| 24       |  | 1                                   | 30 | 1 | 32 | 1 | 34 | 1 | 36 | 1 | 38 | 1  | 40 | 1  | 42 | 1  | 44 | 1  | 46 | 1  | 48 | 6     |  |
| 27       |  | 1                                   | 24 | 1 | 27 | 1 | 29 | 1 | 31 | 1 | 33 | 1  | 35 | 1  | 37 | 1  | 39 | 1  | 41 | 1  | 43 | 3     |  |
| 10       |  | 1                                   | 19 | 1 | 21 | 1 | 23 | 1 | 25 | 1 | 27 | 1  | 29 | 1  | 31 | 1  | 33 | 1  | 35 | 1  | 37 | 2     |  |
| 3        |  | 1                                   | 13 | 1 | 15 | 1 | 17 | 1 | 20 | 1 | 21 | 1  | 23 | 1  | 26 | 1  | 27 | 1  | 29 | 1  | 31 | 27    |  |
| 6        |  | 1                                   | 8  | 1 | 10 | 1 | 12 | 1 | 14 | 1 | 16 | 1  | 18 | 1  | 20 | 1  | 21 | 1  | 23 | 1  | 25 | 24    |  |
| 9        |  | 1                                   | 2  | 1 | 4  | 1 | 6  | 1 | 8  | 1 | 10 | 1  | 12 | 1  | 14 | 1  | 15 | 1  | 17 | 1  | 19 | 21    |  |
| 12       |  | 0                                   | 57 | 0 | 58 | 1 | 0  | 1 | 2  | 1 | 4  | 1  | 6  | 1  | 8  | 1  | 9  | 1  | 11 | 1  | 13 | 18    |  |
| 15       |  | 0                                   | 51 | 0 | 53 | 0 | 54 | 0 | 56 | 0 | 58 | 1  | 0  | 1  | 2  | 1  | 3  | 1  | 5  | 1  | 7  | 15    |  |
| 18       |  | 0                                   | 45 | 0 | 47 | 0 | 48 | 0 | 50 | 0 | 52 | 0  | 54 | 0  | 56 | 0  | 57 | 0  | 59 | 1  | 0  | 12    |  |
| 21       |  | 0                                   | 39 | 0 | 41 | 0 | 42 | 0 | 44 | 0 | 46 | 0  | 48 | 0  | 50 | 0  | 51 | 0  | 53 | 0  | 54 | 9     |  |
| 24       |  | 0                                   | 34 | 0 | 35 | 0 | 37 | 0 | 38 | 0 | 40 | 0  | 42 | 0  | 43 | 0  | 44 | 0  | 46 | 0  | 48 | 6     |  |
| 27       |  | 0                                   | 28 | 0 | 30 | 0 | 31 | 0 | 33 | 0 | 34 | 0  | 36 | 0  | 37 | 0  | 38 | 0  | 40 | 0  | 41 | 3     |  |
| 11       |  | 0                                   | 22 | 0 | 24 | 0 | 25 | 0 | 27 | 0 | 28 | 0  | 30 | 0  | 31 | 0  | 32 | 0  | 34 | 0  | 35 | 1     |  |
| 3        |  | 0                                   | 17 | 0 | 18 | 0 | 20 | 0 | 21 | 0 | 22 | 0  | 24 | 0  | 25 | 0  | 26 | 0  | 27 | 0  | 29 | 27    |  |
| 6        |  | 0                                   | 11 | 0 | 13 | 0 | 14 | 0 | 15 | 0 | 16 | 0  | 18 | 0  | 19 | 0  | 20 | 0  | 21 | 0  | 22 | 24    |  |
| 9        |  | 0                                   | 6  | 0 | 7  | 0 | 8  | 0 | 9  | 0 | 10 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 21    |  |
| 12       |  | 0                                   | S  | 0 | S  | 1 | 0  | S | 2  | 0 | S  | 3  | 0  | S  | 4  | 0  | 6  | 0  | 7  | 0  | 8  | 18    |  |
| 15       |  | 0                                   | 5  | 0 | S  | 4 | 0  | 4 | 0  | S | 3  | 0  | 2  | 0  | S  | 0  | 0  | 1  | 0  | S  | 2  | 15    |  |
| 18       |  | 0                                   | 10 | 0 | 9  | 0 | 9  | 0 | 8  | 0 | 7  | 0  | 6  | 0  | 5  | 0  | 4  | 0  | S  | 4  | 0  | 12    |  |
| 21       |  | 0                                   | 15 | 0 | 15 | 0 | 14 | 0 | 14 | 0 | 13 | 0  | 12 | 0  | 11 | 0  | 10 | 0  | 10 | 0  | 9  | 9     |  |
| 24       |  | 0                                   | 20 | 0 | 20 | 0 | 19 | 0 | 19 | 0 | 18 | 0  | 17 | 0  | 17 | 0  | 16 | 0  | 15 | 0  | 14 | 6     |  |
| 27       |  | 0                                   | 25 | 0 | 25 | 0 | 24 | 0 | 24 | 0 | 23 | 0  | 23 | 0  | 22 | 0  | 22 | 0  | 21 | 0  | 20 | 3     |  |
| 12       |  | 0                                   | 30 | 0 | 30 | 0 | 29 | 0 | 29 | 0 | 28 | 0  | 28 | 0  | 27 | 0  | 27 | 0  | 26 | 0  | 26 | 0     |  |
| conquata |  |                                     |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |  |
|          |  | Adde                                |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |  |
|          |  | 4                                   | 9  | 4 | 8  | 4 | 7  | 4 | 6  | 4 | 5  | 4  | 4  | 4  | 3  | 4  | 2  | 4  | 1  | 4  | 0  |       |  |
|          |  | Distantia vera ☉ à ☿, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |       |  |



Supplementum Ephemeridum,

*Tabula Aequationis Eccentricitatis*

| Anom. |      | Distantia vera ☉ à ☿, vel ab eius ♀ |      |      |      |      |      |      |      |      |      |    |   |   |   |   |    | Anom. |  |
|-------|------|-------------------------------------|------|------|------|------|------|------|------|------|------|----|---|---|---|---|----|-------|--|
|       |      | 2                                   | 1/2  | 2/2  | 3/2  | 4/2  | 5/2  | 6/2  | 7/2  | 8/2  | 9/2  | 10 |   |   |   |   |    |       |  |
|       |      | Subtrahere                          |      |      |      |      |      |      |      |      |      |    |   |   |   |   |    |       |  |
|       | P    | P                                   | P    | P    | P    | P    | P    | P    | P    | P    | P    | P  | P | P | P | P |    |       |  |
| 0     | 0 26 | 0 25                                | 0 24 | 0 24 | 0 23 | 0 22 | 0 22 | 0 21 | 0 26 | 0 19 |      |    |   |   |   |   | 12 |       |  |
| 3     | 0 31 | 0 30                                | 0 30 | 0 30 | 0 29 | 0 28 | 0 28 | 0 27 | 0 26 | 0 25 |      |    |   |   |   |   | 27 |       |  |
| 6     | 0 36 | 0 36                                | 0 36 | 0 35 | 0 35 | 0 34 | 0 33 | 0 33 | 0 32 | 0 31 |      |    |   |   |   |   | 24 |       |  |
| 9     | 0 41 | 0 41                                | 0 41 | 0 41 | 0 41 | 0 40 | 0 39 | 0 39 | 0 38 | 0 38 |      |    |   |   |   |   | 21 |       |  |
| 12    | 0 46 | 0 46                                | 0 46 | 0 46 | 0 46 | 0 46 | 0 45 | 0 45 | 0 44 | 0 44 |      |    |   |   |   |   | 18 |       |  |
| 15    | 0 51 | 0 51                                | 0 51 | 0 51 | 0 51 | 0 51 | 0 51 | 0 51 | 0 50 | 0 50 |      |    |   |   |   |   | 15 |       |  |
| 18    | 0 56 | 0 56                                | 0 56 | 0 56 | 0 56 | 0 56 | 0 56 | 0 56 | 0 56 | 0 56 |      |    |   |   |   |   | 12 |       |  |
| 21    | I 0  | I 1                                 | I 1  | I 1  | I 1  | I 1  | I 1  | I 1  | I 1  | I 1  |      |    |   |   |   |   | 9  |       |  |
| 24    | I 5  | I 5                                 | I 6  | I 6  | I 6  | I 6  | I 6  | I 6  | I 6  | I 6  |      |    |   |   |   |   | 6  |       |  |
| 27    | I 9  | I 9                                 | I 10 | I 10 | I 11 | I 11 | I 11 | I 11 | I 11 | I 11 |      |    |   |   |   |   | 3  |       |  |
| I     | I 13 | I 13                                | I 14 | I 14 | I 15 | I 15 | I 16 | I 16 | I 16 | I 16 |      |    |   |   |   |   | I  |       |  |
| 3     | I 17 | I 17                                | I 18 | I 18 | I 19 | I 19 | I 20 | I 20 | I 20 | I 21 |      |    |   |   |   |   | 27 |       |  |
| 6     | I 20 | I 20                                | I 21 | I 22 | I 22 | I 23 | I 24 | I 24 | I 24 | I 25 |      |    |   |   |   |   | 24 |       |  |
| 9     | I 23 | I 23                                | I 24 | I 25 | I 26 | I 27 | I 27 | I 28 | I 28 | I 29 |      |    |   |   |   |   | 21 |       |  |
| 12    | I 25 | I 26                                | I 27 | I 28 | I 29 | I 30 | I 30 | I 31 | I 32 | I 33 |      |    |   |   |   |   | 18 |       |  |
| 15    | I 27 | I 29                                | I 30 | I 31 | I 32 | I 33 | I 33 | I 34 | I 35 | I 36 |      |    |   |   |   |   | 15 |       |  |
| 18    | I 29 | I 31                                | I 32 | I 33 | I 34 | I 36 | I 36 | I 37 | I 38 | I 39 |      |    |   |   |   |   | 12 |       |  |
| 21    | I 31 | I 33                                | I 34 | I 35 | I 37 | I 38 | I 39 | I 40 | I 41 | I 42 |      |    |   |   |   |   | 9  |       |  |
| 24    | I 33 | I 35                                | I 36 | I 37 | I 39 | I 40 | I 41 | I 42 | I 44 | I 45 |      |    |   |   |   |   | 6  |       |  |
| 27    | I 34 | I 36                                | I 37 | I 39 | I 40 | I 42 | I 43 | I 44 | I 46 | I 47 |      |    |   |   |   |   | 3  |       |  |
| 2     | I 34 | I 36                                | I 38 | I 40 | I 41 | I 43 | I 45 | I 46 | I 48 | I 49 |      |    |   |   |   |   | 10 |       |  |
| 3     | I 35 | I 37                                | I 38 | I 41 | I 42 | I 44 | I 46 | I 48 | I 49 | I 51 |      |    |   |   |   |   | 27 |       |  |
| 6     | I 35 | I 37                                | I 39 | I 41 | I 43 | I 45 | I 47 | I 49 | I 50 | I 52 |      |    |   |   |   |   | 24 |       |  |
| 9     | I 35 | I 37                                | I 39 | I 41 | I 43 | I 45 | I 47 | I 50 | I 51 | I 53 |      |    |   |   |   |   | 21 |       |  |
| 12    | I 34 | I 36                                | I 38 | I 41 | I 43 | I 45 | I 47 | I 49 | I 51 | I 53 |      |    |   |   |   |   | 18 |       |  |
| 15    | I 33 | I 35                                | I 37 | I 40 | I 42 | I 44 | I 47 | I 49 | I 51 | I 53 |      |    |   |   |   |   | 15 |       |  |
| 18    | I 32 | I 34                                | I 36 | I 39 | I 41 | I 43 | I 46 | I 48 | I 51 | I 53 |      |    |   |   |   |   | 12 |       |  |
| 21    | I 30 | I 32                                | I 35 | I 37 | I 40 | I 42 | I 45 | I 47 | I 50 | I 52 |      |    |   |   |   |   | 9  |       |  |
| 24    | I 27 | I 30                                | I 33 | I 35 | I 38 | I 41 | I 43 | I 46 | I 49 | I 51 |      |    |   |   |   |   | 6  |       |  |
| 27    | I 25 | I 28                                | I 31 | I 33 | I 36 | I 39 | I 41 | I 44 | I 47 | I 49 |      |    |   |   |   |   | 3  |       |  |
| 3     | I 22 | I 25                                | I 28 | I 31 | I 33 | I 36 | I 39 | I 42 | I 45 | I 47 |      |    |   |   |   |   | 9  |       |  |
|       |      | Adde                                |      |      |      |      |      |      |      |      |      |    |   |   |   |   |    |       |  |
|       |      | 3                                   | 29/3 | 28/3 | 27/3 | 26/3 | 25/3 | 24/3 | 23/3 | 22/3 | 21/3 | 20 |   |   |   |   |    |       |  |
|       |      | Distantia vera ☉ à ☿, vel ab eius ♀ |      |      |      |      |      |      |      |      |      |    |   |   |   |   |    |       |  |



# Ac Tab. Secundorum Mobilium.

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Composita & absoluta Luna.

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| 9 2 10 |   |    | Anom.    |
|--------|---|----|----------|
| 26     | 0 | 19 | 12       |
| 26     | 0 | 25 | 27       |
| 32     | 0 | 31 | 24       |
| 38     | 0 | 38 | 21       |
| 44     | 0 | 44 | 18       |
| 50     | 0 | 50 | 15       |
| 56     | 0 | 56 | 12       |
| 1      | 1 | 1  | 9        |
| 6      | 1 | 6  | 6        |
| 11     | 1 | 11 | 3        |
| 16     | 1 | 16 | 11       |
| 20     | 1 | 21 | 27       |
| 24     | 1 | 25 | 24       |
| 28     | 1 | 29 | 21       |
| 32     | 1 | 33 | 18       |
| 35     | 1 | 36 | 15       |
| 38     | 1 | 39 | 12       |
| 41     | 1 | 42 | 9        |
| 44     | 1 | 45 | 6        |
| 46     | 1 | 47 | 3        |
| 48     | 1 | 49 | 10       |
| 49     | 1 | 51 | 27       |
| 50     | 1 | 52 | 24       |
| 51     | 1 | 53 | 21       |
| 51     | 1 | 53 | 18       |
| 51     | 1 | 53 | 15       |
| 51     | 1 | 53 | 12       |
| 50     | 1 | 52 | 9        |
| 49     | 1 | 51 | 6        |
| 47     | 1 | 49 | 3        |
| 45     | 1 | 47 | 9        |
| 21     | 3 | 20 | corrupta |

| Distantia vera ☉ à ☽, vel ab eius ☿ |      |      |      |      |      |      |      |      |      |     |    |    |   | Anom. |
|-------------------------------------|------|------|------|------|------|------|------|------|------|-----|----|----|---|-------|
| Anom.                               | 2    | 1 2  | 2 2  | 3 2  | 4 2  | 5 2  | 6 2  | 7 2  | 8 2  | 9 2 | 10 |    |   |       |
| Subtrahere                          |      |      |      |      |      |      |      |      |      |     |    |    |   |       |
|                                     | P    | /    | P    | /    | P    | /    | P    | /    | P    | /   | P  | /  | P | /     |
| 3                                   | 1    | 22   | 1    | 25   | 1    | 28   | 1    | 31   | 1    | 33  | 1  | 36 | 1 | 39    |
| 3                                   | 1    | 19   | 1    | 22   | 1    | 25   | 1    | 28   | 1    | 31  | 1  | 34 | 1 | 37    |
| 6                                   | 1    | 16   | 1    | 18   | 1    | 21   | 1    | 25   | 1    | 28  | 1  | 31 | 1 | 34    |
| 9                                   | 1    | 12   | 1    | 15   | 1    | 18   | 1    | 21   | 1    | 25  | 1  | 28 | 1 | 31    |
| 12                                  | 1    | 8    | 1    | 11   | 1    | 14   | 1    | 17   | 1    | 21  | 1  | 24 | 1 | 27    |
| 15                                  | 1    | 3    | 1    | 7    | 1    | 10   | 1    | 13   | 1    | 17  | 1  | 20 | 1 | 23    |
| 18                                  | 0    | 58   | 1    | 2    | 1    | 5    | 1    | 8    | 1    | 12  | 1  | 15 | 1 | 19    |
| 21                                  | 0    | 53   | 0    | 57   | 1    | 0    | 1    | 3    | 1    | 7   | 1  | 10 | 1 | 14    |
| 24                                  | 0    | 48   | 0    | 51   | 0    | 55   | 0    | 58   | 1    | 1   | 1  | 5  | 1 | 9     |
| 27                                  | 0    | 42   | 0    | 46   | 0    | 49   | 0    | 53   | 0    | 56  | 1  | 0  | 1 | 4     |
| 4                                   | 0    | 36   | 0    | 40   | 0    | 43   | 0    | 47   | 0    | 50  | 0  | 54 | 0 | 58    |
| 6                                   | 0    | 30   | 0    | 34   | 0    | 37   | 0    | 41   | 0    | 44  | 0  | 48 | 0 | 52    |
| 9                                   | 0    | 24   | 0    | 27   | 0    | 31   | 0    | 35   | 0    | 38  | 0  | 42 | 0 | 46    |
| 12                                  | 0    | 18   | 0    | 20   | 0    | 25   | 0    | 29   | 0    | 32  | 0  | 36 | 0 | 40    |
| 15                                  | 0    | 11   | 0    | 14   | 0    | 18   | 0    | 22   | 0    | 25  | 0  | 29 | 0 | 33    |
| 18                                  | 0    | 4    | 0    | 7    | 0    | 11   | 0    | 15   | 0    | 18  | 0  | 22 | 0 | 26    |
| 21                                  | 0    | A 3  | 0    | A 0  | 0    | A 4  | 0    | 8    | 0    | 11  | 0  | 15 | 0 | 19    |
| 24                                  | 0    | 11   | 0    | 8    | 0    | A 3  | 0    | 0    | 0    | A 4 | 0  | 8  | 0 | 11    |
| 27                                  | 0    | 18   | 0    | 15   | 0    | 11   | 0    | A 7  | 0    | A 4 | 0  | 0  | 0 | A 4   |
| 5                                   | 0    | 25   | 0    | 22   | 0    | 18   | 0    | 15   | 0    | 11  | 0  | 7  | 0 | 4     |
| 6                                   | 0    | 32   | 0    | 29   | 0    | 25   | 0    | 22   | 0    | 18  | 0  | 15 | 0 | 11    |
| 9                                   | 0    | 39   | 0    | 36   | 0    | 33   | 0    | 29   | 0    | 26  | 0  | 22 | 0 | 19    |
| 12                                  | 0    | 46   | 0    | 43   | 0    | 40   | 0    | 36   | 0    | 33  | 0  | 30 | 0 | 26    |
| 15                                  | 0    | 54   | 0    | 51   | 0    | 48   | 0    | 44   | 0    | 40  | 0  | 37 | 0 | 34    |
| 18                                  | 1    | 1    | 0    | 58   | 0    | 55   | 0    | 52   | 0    | 48  | 0  | 45 | 0 | 42    |
| 21                                  | 1    | 8    | 1    | 5    | 1    | 3    | 0    | 59   | 0    | 56  | 0  | 53 | 0 | 50    |
| 24                                  | 1    | 15   | 1    | 12   | 1    | 10   | 1    | 7    | 1    | 4   | 1  | 1  | 0 | 58    |
| 27                                  | 1    | 22   | 1    | 19   | 1    | 17   | 1    | 14   | 1    | 11  | 1  | 8  | 1 | 5     |
| 4                                   | 1    | 29   | 1    | 26   | 1    | 24   | 1    | 21   | 1    | 18  | 1  | 15 | 1 | 12    |
| 6                                   | 1    | 35   | 1    | 33   | 1    | 31   | 1    | 28   | 1    | 25  | 1  | 22 | 1 | 20    |
| 9                                   | 1    | 42   | 1    | 39   | 1    | 37   | 1    | 35   | 1    | 32  | 1  | 29 | 1 | 27    |
| Subtrahere                          |      |      |      |      |      |      |      |      |      |     |    |    |   |       |
| 3                                   | 29 3 | 28 3 | 27 3 | 26 3 | 25 3 | 24 3 | 23 3 | 22 3 | 21 3 | 20  |    |    |   |       |
| Distantia vera ☉ à ☽, vel ab eius ☿ |      |      |      |      |      |      |      |      |      |     |    |    |   |       |
| 3                                   | 29 3 | 28 3 | 27 3 | 26 3 | 25 3 | 24 3 | 23 3 | 22 3 | 21 3 | 20  |    |    |   |       |

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| Anom. | Distantia vera ☉ à ☼, vel ab eius ☿ |      |      |      |      |      |      |      |      |      |    |    | Anom. |    |   |    |   |    |   |    |
|-------|-------------------------------------|------|------|------|------|------|------|------|------|------|----|----|-------|----|---|----|---|----|---|----|
|       | 2                                   | 12   | 22   | 32   | 42   | 52   | 62   | 72   | 82   | 92   | 10 |    |       |    |   |    |   |    |   |    |
|       | Adde                                |      |      |      |      |      |      |      |      |      |    |    |       |    |   |    |   |    |   |    |
|       | P                                   | /    | P    | /    | P    | /    | P    | /    | P    | /    | P  | /  |       |    |   |    |   |    |   |    |
| 6     | 1                                   | 42   | 1    | 39   | 1    | 37   | 1    | 35   | 1    | 32   | 1  | 29 | 1     | 27 | 1 | 24 | 1 | 21 | 1 | 18 |
| 3     | 1                                   | 48   | 1    | 46   | 1    | 44   | 1    | 42   | 1    | 39   | 1  | 36 | 1     | 34 | 1 | 31 | 1 | 28 | 1 | 25 |
| 6     | 1                                   | 54   | 1    | 52   | 1    | 50   | 1    | 48   | 1    | 45   | 1  | 43 | 1     | 40 | 1 | 38 | 1 | 35 | 1 | 32 |
| 9     | 2                                   | 0    | 1    | 58   | 1    | 56   | 1    | 54   | 1    | 52   | 1  | 50 | 1     | 47 | 1 | 45 | 1 | 42 | 1 | 39 |
| 12    | 2                                   | 5    | 2    | 4    | 2    | 2    | 2    | 0    | 1    | 58   | 1  | 56 | 1     | 53 | 1 | 51 | 1 | 48 | 1 | 46 |
| 15    | 2                                   | 10   | 2    | 9    | 2    | 7    | 2    | 6    | 2    | 4    | 2  | 2  | 1     | 59 | 1 | 57 | 1 | 54 | 1 | 52 |
| 18    | 2                                   | 15   | 2    | 14   | 2    | 12   | 2    | 11   | 2    | 9    | 2  | 7  | 2     | 5  | 2 | 3  | 2 | 0  | 1 | 58 |
| 21    | 2                                   | 20   | 2    | 19   | 2    | 17   | 2    | 16   | 2    | 14   | 2  | 12 | 2     | 10 | 2 | 8  | 2 | 6  | 2 | 4  |
| 24    | 2                                   | 24   | 2    | 23   | 2    | 22   | 2    | 20   | 2    | 19   | 2  | 17 | 2     | 15 | 2 | 13 | 2 | 11 | 2 | 9  |
| 27    | 2                                   | 28   | 2    | 27   | 2    | 26   | 2    | 24   | 2    | 23   | 2  | 22 | 2     | 20 | 2 | 18 | 2 | 16 | 2 | 14 |
| 7     | 2                                   | 31   | 2    | 31   | 2    | 30   | 2    | 28   | 2    | 27   | 2  | 26 | 2     | 24 | 2 | 23 | 2 | 21 | 2 | 19 |
| 3     | 2                                   | 34   | 2    | 34   | 2    | 33   | 2    | 32   | 2    | 31   | 2  | 30 | 2     | 28 | 2 | 27 | 2 | 26 | 2 | 24 |
| 6     | 2                                   | 37   | 2    | 37   | 2    | 36   | 2    | 35   | 2    | 35   | 2  | 34 | 2     | 32 | 2 | 31 | 2 | 30 | 2 | 28 |
| 9     | 2                                   | 40   | 2    | 40   | 2    | 39   | 2    | 38   | 2    | 38   | 2  | 37 | 2     | 35 | 2 | 34 | 2 | 33 | 2 | 31 |
| 12    | 2                                   | 42   | 2    | 42   | 2    | 42   | 2    | 41   | 2    | 41   | 2  | 40 | 2     | 38 | 2 | 37 | 2 | 36 | 2 | 34 |
| 15    | 2                                   | 44   | 2    | 44   | 2    | 44   | 2    | 43   | 2    | 43   | 2  | 42 | 2     | 41 | 2 | 40 | 2 | 39 | 2 | 37 |
| 18    | 2                                   | 45   | 2    | 45   | 2    | 45   | 2    | 45   | 2    | 45   | 2  | 44 | 2     | 43 | 2 | 43 | 2 | 42 | 2 | 40 |
| 21    | 2                                   | 46   | 2    | 46   | 2    | 46   | 2    | 46   | 2    | 46   | 2  | 46 | 2     | 45 | 2 | 45 | 2 | 44 | 2 | 42 |
| 24    | 2                                   | 47   | 2    | 47   | 2    | 47   | 2    | 47   | 2    | 47   | 2  | 47 | 2     | 46 | 2 | 46 | 2 | 45 | 2 | 44 |
| 27    | 2                                   | 47   | 2    | 47   | 2    | 48   | 2    | 48   | 2    | 48   | 2  | 48 | 2     | 47 | 2 | 47 | 2 | 46 | 2 | 46 |
| 8     | 2                                   | 47   | 2    | 47   | 2    | 48   | 2    | 48   | 2    | 48   | 2  | 48 | 2     | 48 | 2 | 48 | 2 | 47 | 2 | 47 |
| 3     | 2                                   | 47   | 2    | 47   | 2    | 48   | 2    | 48   | 2    | 48   | 2  | 48 | 2     | 48 | 2 | 48 | 2 | 48 | 2 | 47 |
| 6     | 2                                   | 46   | 2    | 46   | 2    | 47   | 2    | 47   | 2    | 47   | 2  | 48 | 2     | 48 | 2 | 48 | 2 | 48 | 2 | 47 |
| 9     | 2                                   | 45   | 2    | 45   | 2    | 46   | 2    | 46   | 2    | 46   | 2  | 47 | 2     | 47 | 2 | 47 | 2 | 48 | 2 | 47 |
| 12    | 2                                   | 43   | 2    | 43   | 2    | 44   | 2    | 45   | 2    | 45   | 2  | 46 | 2     | 46 | 2 | 46 | 2 | 47 | 2 | 47 |
| 15    | 2                                   | 41   | 2    | 41   | 2    | 43   | 2    | 44   | 2    | 44   | 2  | 45 | 2     | 45 | 2 | 45 | 2 | 46 | 2 | 46 |
| 18    | 2                                   | 38   | 2    | 39   | 2    | 41   | 2    | 42   | 2    | 43   | 2  | 43 | 2     | 44 | 2 | 44 | 2 | 45 | 2 | 45 |
| 21    | 2                                   | 36   | 2    | 37   | 2    | 39   | 2    | 40   | 2    | 41   | 2  | 41 | 2     | 42 | 2 | 42 | 2 | 43 | 2 | 43 |
| 24    | 2                                   | 33   | 2    | 35   | 2    | 46   | 2    | 37   | 2    | 38   | 2  | 39 | 2     | 40 | 2 | 40 | 2 | 41 | 2 | 41 |
| 27    | 2                                   | 30   | 2    | 32   | 2    | 33   | 2    | 34   | 2    | 35   | 2  | 36 | 2     | 37 | 2 | 38 | 2 | 38 | 2 | 39 |
| 9     | 2                                   | 26   | 2    | 28   | 2    | 29   | 2    | 31   | 2    | 32   | 2  | 33 | 2     | 34 | 2 | 35 | 2 | 35 | 2 | 36 |
| Anom. | Subtrahe                            |      |      |      |      |      |      |      |      |      |    |    | Anom. |    |   |    |   |    |   |    |
|       | 3                                   | 29/3 | 28/3 | 27/3 | 26/3 | 25/3 | 24/3 | 23/3 | 22/3 | 21/3 | 20 |    |       |    |   |    |   |    |   |    |
|       | Distantia vera ☉ à ☼, vel ab eius ☿ |      |      |      |      |      |      |      |      |      |    |    |       |    |   |    |   |    |   |    |



Ac Tab. Secundorum Mobilium.

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Composite & absolute Luna.

| 9/2 | 10 | Anom. |
|-----|----|-------|
| 1   | P  | 1     |
| 11  | 1  | 18    |
| 18  | 1  | 25    |
| 25  | 1  | 32    |
| 32  | 1  | 39    |
| 39  | 1  | 46    |
| 46  | 1  | 52    |
| 52  | 1  | 58    |
| 58  | 2  | 4     |
| 6   | 2  | 9     |
| 11  | 2  | 14    |
| 16  | 2  | 19    |
| 21  | 2  | 24    |
| 26  | 2  | 28    |
| 30  | 2  | 31    |
| 33  | 2  | 34    |
| 36  | 2  | 37    |
| 39  | 2  | 40    |
| 42  | 2  | 42    |
| 44  | 2  | 44    |
| 45  | 2  | 46    |
| 46  | 2  | 47    |
| 47  | 2  | 47    |
| 48  | 2  | 47    |
| 48  | 2  | 47    |
| 48  | 2  | 47    |
| 47  | 2  | 47    |
| 46  | 2  | 46    |
| 45  | 2  | 45    |
| 43  | 2  | 43    |
| 41  | 2  | 41    |
| 38  | 2  | 39    |
| 35  | 2  | 36    |
| 21  | 3  | 20    |

| Anom. |    | Distantia vera ☉ à ☿. |     |     |     |     |     |     |     |     |     |    |    |   |    |   |    | Anom. |    |   |    |    |    |  |  |  |  |  |  |  |
|-------|----|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|----|---|----|-------|----|---|----|----|----|--|--|--|--|--|--|--|
|       |    | 2                     | 1/2 | 2/2 | 3/2 | 4/2 | 5/2 | 6/2 | 7/2 | 8/2 | 9/2 | 10 |    |   |    |   |    |       |    |   |    |    |    |  |  |  |  |  |  |  |
|       |    | Adde                  |     |     |     |     |     |     |     |     |     |    |    |   |    |   |    |       |    |   |    |    |    |  |  |  |  |  |  |  |
|       |    | P                     | /   | P   | /   | P   | /   | P   | /   | P   | /   | P  | /  | P | /  | P | /  | P     | /  | P | /  |    |    |  |  |  |  |  |  |  |
| 9     | 6  | 2                     | 26  | 2   | 28  | 2   | 29  | 2   | 31  | 2   | 32  | 2  | 33 | 2 | 34 | 2 | 35 | 2     | 35 | 2 | 36 | 3  | 27 |  |  |  |  |  |  |  |
| 3     | 27 | 2                     | 22  | 2   | 24  | 2   | 26  | 2   | 27  | 2   | 28  | 2  | 29 | 2 | 31 | 2 | 32 | 2     | 32 | 2 | 33 | 27 |    |  |  |  |  |  |  |  |
| 6     | 24 | 2                     | 18  | 2   | 20  | 2   | 22  | 2   | 23  | 2   | 24  | 2  | 25 | 2 | 27 | 2 | 28 | 2     | 29 | 2 | 29 | 24 |    |  |  |  |  |  |  |  |
| 9     | 21 | 2                     | 14  | 2   | 16  | 2   | 18  | 2   | 19  | 2   | 20  | 2  | 21 | 2 | 23 | 2 | 24 | 2     | 25 | 2 | 26 | 21 |    |  |  |  |  |  |  |  |
| 12    | 18 | 2                     | 10  | 2   | 11  | 2   | 13  | 2   | 14  | 2   | 16  | 2  | 17 | 2 | 18 | 2 | 20 | 2     | 21 | 2 | 22 | 18 |    |  |  |  |  |  |  |  |
| 15    | 15 | 2                     | 5   | 2   | 6   | 2   | 8   | 2   | 10  | 2   | 11  | 2  | 13 | 2 | 14 | 2 | 16 | 2     | 17 | 2 | 18 | 15 |    |  |  |  |  |  |  |  |
| 18    | 12 | 2                     | 0   | 2   | 1   | 2   | 3   | 2   | 5   | 2   | 6   | 2  | 8  | 2 | 9  | 2 | 11 | 2     | 12 | 2 | 13 | 12 |    |  |  |  |  |  |  |  |
| 21    | 9  | 1                     | 55  | 1   | 56  | 1   | 58  | 2   | 0   | 2   | 1   | 2  | 3  | 2 | 4  | 2 | 6  | 2     | 7  | 2 | 8  | 9  |    |  |  |  |  |  |  |  |
| 24    | 6  | 1                     | 50  | 1   | 51  | 1   | 53  | 1   | 55  | 1   | 56  | 1  | 58 | 1 | 59 | 2 | 1  | 2     | 2  | 2 | 3  | 6  |    |  |  |  |  |  |  |  |
| 27    | 3  | 1                     | 44  | 1   | 45  | 1   | 48  | 1   | 50  | 1   | 51  | 1  | 53 | 1 | 54 | 1 | 56 | 1     | 57 | 1 | 58 | 3  |    |  |  |  |  |  |  |  |
| 10    | 27 | 1                     | 39  | 1   | 40  | 1   | 42  | 1   | 44  | 1   | 45  | 1  | 47 | 1 | 48 | 1 | 50 | 1     | 51 | 1 | 52 | 2  |    |  |  |  |  |  |  |  |
| 3     | 24 | 1                     | 33  | 1   | 34  | 1   | 36  | 1   | 38  | 1   | 39  | 1  | 41 | 1 | 42 | 1 | 44 | 1     | 45 | 1 | 46 | 27 |    |  |  |  |  |  |  |  |
| 6     | 21 | 1                     | 27  | 1   | 28  | 1   | 30  | 1   | 32  | 1   | 33  | 1  | 35 | 1 | 36 | 1 | 38 | 1     | 39 | 1 | 40 | 24 |    |  |  |  |  |  |  |  |
| 9     | 18 | 1                     | 21  | 1   | 22  | 1   | 24  | 1   | 26  | 1   | 27  | 1  | 29 | 1 | 30 | 1 | 32 | 1     | 33 | 1 | 35 | 21 |    |  |  |  |  |  |  |  |
| 12    | 15 | 1                     | 15  | 1   | 16  | 1   | 18  | 1   | 20  | 1   | 21  | 1  | 23 | 1 | 24 | 1 | 26 | 1     | 27 | 1 | 29 | 18 |    |  |  |  |  |  |  |  |
| 15    | 12 | 1                     | 9   | 1   | 10  | 1   | 12  | 1   | 13  | 1   | 14  | 1  | 16 | 1 | 17 | 1 | 19 | 1     | 21 | 1 | 23 | 15 |    |  |  |  |  |  |  |  |
| 18    | 9  | 1                     | 2   | 1   | 3   | 1   | 5   | 1   | 6   | 1   | 8   | 1  | 10 | 1 | 11 | 1 | 13 | 1     | 14 | 1 | 16 | 12 |    |  |  |  |  |  |  |  |
| 21    | 6  | 0                     | 56  | 0   | 57  | 0   | 59  | 1   | 0   | 1   | 2   | 1  | 3  | 1 | 4  | 1 | 6  | 1     | 8  | 1 | 10 | 9  |    |  |  |  |  |  |  |  |
| 24    | 3  | 0                     | 49  | 0   | 51  | 0   | 52  | 0   | 54  | 0   | 55  | 0  | 57 | 0 | 58 | 1 | 0  | 1     | 1  | 1 | 3  | 6  |    |  |  |  |  |  |  |  |
| 27    | 0  | 0                     | 43  | 0   | 44  | 0   | 46  | 0   | 47  | 0   | 48  | 0  | 50 | 0 | 51 | 0 | 53 | 0     | 55 | 0 | 56 | 3  |    |  |  |  |  |  |  |  |
| 11    | 27 | 0                     | 37  | 0   | 38  | 0   | 39  | 0   | 41  | 0   | 42  | 0  | 44 | 0 | 45 | 0 | 47 | 0     | 48 | 0 | 49 | 1  |    |  |  |  |  |  |  |  |
| 3     | 24 | 0                     | 31  | 0   | 31  | 0   | 33  | 0   | 34  | 0   | 35  | 0  | 37 | 0 | 38 | 0 | 40 | 0     | 41 | 0 | 42 | 27 |    |  |  |  |  |  |  |  |
| 6     | 21 | 0                     | 24  | 0   | 25  | 0   | 26  | 0   | 28  | 0   | 29  | 0  | 30 | 0 | 32 | 0 | 33 | 0     | 34 | 0 | 35 | 24 |    |  |  |  |  |  |  |  |
| 9     | 18 | 0                     | 17  | 0   | 19  | 0   | 20  | 0   | 21  | 0   | 22  | 0  | 24 | 0 | 25 | 0 | 26 | 0     | 27 | 0 | 28 | 21 |    |  |  |  |  |  |  |  |
| 12    | 15 | 0                     | 11  | 0   | 12  | 0   | 13  | 0   | 14  | 0   | 15  | 0  | 17 | 0 | 18 | 0 | 19 | 0     | 20 | 0 | 21 | 18 |    |  |  |  |  |  |  |  |
| 15    | 12 | 0                     | S   | 0   | 6   | 0   | 7   | 0   | 8   | 0   | 9   | 0  | 10 | 0 | 12 | 0 | 13 | 0     | 14 | 0 | 14 | 15 |    |  |  |  |  |  |  |  |
| 18    | 9  | 0                     | 1   | 0   | S   | 0   | S   | 0   | 2   | 0   | S   | 0  | S  | 0 | S  | 0 | 6  | 0     | 7  | 0 | 7  | 12 |    |  |  |  |  |  |  |  |
| 21    | 6  | 0                     | 7   | 0   | 6   | 0   | 6   | S   | 5   | 0   | S   | 4  | 0  | 3 | 0  | 1 | S  | 0     | S  | 0 | S  | 9  |    |  |  |  |  |  |  |  |
| 24    | 3  | 0                     | 13  | 0   | 12  | 0   | 12  | 0   | 11  | 0   | 10  | 0  | 9  | 0 | 8  | 0 | 7  | 0     | 7  | 0 | 6  | 6  |    |  |  |  |  |  |  |  |
| 27    | 0  | 0                     | 19  | 0   | 18  | 0   | 18  | 0   | 17  | 0   | 16  | 0  | 15 | 0 | 14 | 0 | 14 | 0     | 13 | 0 | 12 | 3  |    |  |  |  |  |  |  |  |
| 12    | 0  | 0                     | 25  | 0   | 24  | 0   | 24  | 0   | 23  | 0   | 22  | 0  | 21 | 0 | 20 | 0 | 20 | 0     | 19 | 0 | 19 | 0  |    |  |  |  |  |  |  |  |
|       |    | Adde                  |     |     |     |     |     |     |     |     |     |    |    |   |    |   |    |       |    |   |    |    |    |  |  |  |  |  |  |  |
|       |    | 3                     | 29  | 3   | 28  | 3   | 27  | 3   | 26  | 3   | 25  | 3  | 24 | 3 | 23 | 3 | 22 | 3     | 21 | 3 | 20 |    |    |  |  |  |  |  |  |  |
|       |    | Distantia vera ☉ à ☿. |     |     |     |     |     |     |     |     |     |    |    |   |    |   |    |       |    |   |    |    |    |  |  |  |  |  |  |  |

K 2

| Anom.                               | Distantia vera ☉ à ☼, vel ab eius ☿ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |    | Anom.    |
|-------------------------------------|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|----|----|----|----|----------|
|                                     | 2                                   | 11 | 2 | 12 | 2 | 13 | 2 | 14 | 2 | 15 | 2 | 16 | 2 | 17 | 2 | 18 | 2  | 19 | 2  | 20 |          |
|                                     | Subtrahere                          |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |    |          |
|                                     | P                                   | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P | /  | P  | /  | P  | /  |          |
| 0                                   | 0                                   | 18 | 0 | 17 | 0 | 16 | 0 | 16 | 0 | 15 | 0 | 14 | 0 | 13 | 0 | 12 | 0  | 11 | 0  | 10 | 12       |
| 3                                   | 0                                   | 25 | 0 | 24 | 0 | 23 | 0 | 23 | 0 | 22 | 0 | 21 | 0 | 20 | 0 | 19 | 0  | 18 | 0  | 17 | 27       |
| 6                                   | 0                                   | 31 | 0 | 30 | 0 | 29 | 0 | 29 | 0 | 28 | 0 | 27 | 0 | 27 | 0 | 26 | 0  | 25 | 0  | 24 | 24       |
| 9                                   | 0                                   | 37 | 0 | 37 | 0 | 36 | 0 | 36 | 0 | 35 | 0 | 34 | 0 | 34 | 0 | 33 | 0  | 32 | 0  | 31 | 21       |
| 12                                  | 0                                   | 43 | 0 | 43 | 0 | 42 | 0 | 42 | 0 | 41 | 0 | 40 | 0 | 40 | 0 | 39 | 0  | 38 | 0  | 38 | 18       |
| 15                                  | 0                                   | 49 | 0 | 49 | 0 | 49 | 0 | 48 | 0 | 48 | 0 | 47 | 0 | 47 | 0 | 46 | 0  | 45 | 0  | 45 | 15       |
| 18                                  | 0                                   | 55 | 0 | 55 | 0 | 55 | 0 | 54 | 0 | 54 | 0 | 53 | 0 | 53 | 0 | 52 | 0  | 51 | 0  | 51 | 12       |
| 21                                  | 1                                   | 1  | 1 | 1  | 1 | 1  | 1 | 0  | 1 | 0  | 0 | 59 | 0 | 59 | 0 | 58 | 0  | 58 | 0  | 57 | 9        |
| 24                                  | 1                                   | 6  | 1 | 6  | 1 | 6  | 1 | 6  | 1 | 5  | 1 | 5  | 1 | 5  | 1 | 4  | 1  | 4  | 1  | 3  | 6        |
| 27                                  | 1                                   | 12 | 1 | 12 | 1 | 12 | 1 | 12 | 1 | 11 | 1 | 11 | 1 | 11 | 1 | 10 | 1  | 10 | 1  | 9  | 3        |
| 1                                   | 1                                   | 17 | 1 | 17 | 1 | 17 | 1 | 17 | 1 | 16 | 1 | 16 | 1 | 16 | 1 | 16 | 1  | 16 | 1  | 15 | 11       |
| 3                                   | 1                                   | 22 | 1 | 22 | 1 | 22 | 1 | 22 | 1 | 22 | 1 | 22 | 1 | 22 | 1 | 22 | 1  | 22 | 1  | 21 | 27       |
| 6                                   | 1                                   | 26 | 1 | 26 | 1 | 26 | 1 | 27 | 1 | 27 | 1 | 27 | 1 | 27 | 1 | 27 | 1  | 27 | 1  | 27 | 24       |
| 9                                   | 1                                   | 30 | 1 | 30 | 1 | 30 | 1 | 31 | 1 | 32 | 1 | 32 | 1 | 32 | 1 | 32 | 1  | 32 | 1  | 32 | 21       |
| 12                                  | 1                                   | 33 | 1 | 34 | 1 | 34 | 1 | 35 | 1 | 36 | 1 | 36 | 1 | 36 | 1 | 36 | 1  | 36 | 1  | 37 | 18       |
| 15                                  | 1                                   | 37 | 1 | 38 | 1 | 38 | 1 | 39 | 1 | 40 | 1 | 40 | 1 | 40 | 1 | 41 | 1  | 41 | 1  | 42 | 15       |
| 18                                  | 1                                   | 40 | 1 | 41 | 1 | 42 | 1 | 42 | 1 | 43 | 1 | 44 | 1 | 44 | 1 | 45 | 1  | 45 | 1  | 46 | 12       |
| 21                                  | 1                                   | 43 | 1 | 44 | 1 | 45 | 1 | 46 | 1 | 47 | 1 | 48 | 1 | 48 | 1 | 49 | 1  | 49 | 1  | 50 | 9        |
| 24                                  | 1                                   | 46 | 1 | 47 | 1 | 48 | 1 | 49 | 1 | 50 | 1 | 51 | 1 | 51 | 1 | 52 | 1  | 53 | 1  | 54 | 6        |
| 27                                  | 1                                   | 48 | 1 | 50 | 1 | 51 | 1 | 52 | 1 | 53 | 1 | 54 | 1 | 55 | 1 | 56 | 1  | 56 | 1  | 57 | 3        |
| 2                                   | 1                                   | 50 | 1 | 52 | 1 | 53 | 1 | 55 | 1 | 56 | 1 | 57 | 1 | 58 | 1 | 59 | 1  | 59 | 2  | 0  | 10       |
| 3                                   | 1                                   | 52 | 1 | 54 | 1 | 55 | 1 | 57 | 1 | 58 | 1 | 59 | 2 | 0  | 2 | 1  | 2  | 2  | 2  | 3  | 27       |
| 6                                   | 1                                   | 53 | 1 | 55 | 1 | 57 | 1 | 58 | 2 | 0  | 2 | 1  | 2 | 2  | 3 | 2  | 4  | 2  | 5  | 24 |          |
| 9                                   | 1                                   | 54 | 1 | 56 | 1 | 58 | 1 | 59 | 2 | 1  | 2 | 3  | 2 | 4  | 2 | 5  | 2  | 6  | 2  | 8  | 21       |
| 12                                  | 1                                   | 55 | 1 | 57 | 1 | 59 | 2 | 0  | 2 | 2  | 4 | 2  | 6 | 2  | 7 | 2  | 8  | 2  | 10 | 18 |          |
| 15                                  | 1                                   | 55 | 1 | 57 | 1 | 59 | 2 | 1  | 2 | 3  | 2 | 5  | 2 | 7  | 2 | 8  | 2  | 10 | 2  | 11 | 15       |
| 18                                  | 1                                   | 55 | 1 | 57 | 1 | 59 | 2 | 1  | 2 | 3  | 2 | 5  | 2 | 7  | 2 | 9  | 2  | 11 | 2  | 12 | 12       |
| 21                                  | 1                                   | 54 | 1 | 57 | 1 | 59 | 2 | 1  | 2 | 3  | 2 | 5  | 2 | 7  | 2 | 9  | 2  | 11 | 2  | 13 | 9        |
| 24                                  | 1                                   | 53 | 1 | 56 | 1 | 58 | 2 | 1  | 2 | 3  | 2 | 5  | 2 | 7  | 2 | 9  | 2  | 11 | 2  | 13 | 6        |
| 27                                  | 1                                   | 52 | 1 | 55 | 1 | 57 | 2 | 0  | 2 | 2  | 4 | 2  | 6 | 2  | 9 | 2  | 11 | 2  | 13 | 3  | 3        |
| 3                                   | 1                                   | 50 | 1 | 53 | 1 | 55 | 1 | 58 | 2 | 0  | 2 | 3  | 2 | 6  | 2 | 8  | 2  | 10 | 2  | 12 | 0        |
| conquata                            | Adde                                |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |    | conquata |
|                                     | 3                                   | 19 | 3 | 18 | 3 | 17 | 3 | 16 | 3 | 15 | 3 | 14 | 3 | 13 | 3 | 12 | 3  | 11 | 3  | 10 |          |
| Distantia vera ☉ à ☼, vel ab eius ☿ |                                     |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |    |    |    |    |          |



| 19/2 | 20 | Anom. |
|------|----|-------|
| 11   | 10 | 12    |
| 18   | 17 | 27    |
| 25   | 24 | 24    |
| 32   | 31 | 21    |
| 38   | 38 | 18    |
| 45   | 45 | 15    |
| 51   | 51 | 12    |
| 58   | 57 | 9     |
| 4    | 3  | 6     |
| 10   | 9  | 3     |
| 16   | 15 | 11    |
| 22   | 21 | 27    |
| 27   | 27 | 24    |
| 32   | 32 | 21    |
| 36   | 37 | 18    |
| 41   | 42 | 15    |
| 45   | 46 | 12    |
| 49   | 50 | 9     |
| 53   | 54 | 6     |
| 56   | 57 | 3     |
| 59   | 0  | 10    |
| 2    | 3  | 27    |
| 4    | 5  | 24    |
| 6    | 8  | 21    |
| 8    | 10 | 18    |
| 10   | 11 | 15    |
| 11   | 12 | 12    |
| 11   | 13 | 9     |
| 11   | 13 | 6     |
| 11   | 13 | 3     |
| 10   | 12 | 0     |
| 11   | 13 | 10    |

| Anom.     |      | Distantia vera ☉ à ☿, vel ab eius ☿ |      |      |      |      |      |      |      |      |      |    |    |    |                                     |    |    |    |    |    |    | Anom. |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |
|-----------|------|-------------------------------------|------|------|------|------|------|------|------|------|------|----|----|----|-------------------------------------|----|----|----|----|----|----|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|-----------|--|
|           |      | 2                                   | 11/2 | 12/2 | 13/2 | 14/2 | 15/2 | 16/2 | 17/2 | 18/2 | 19/2 | 20 |    |    | Subtrahe                            |    |    |    |    |    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |
|           |      | P                                   | P    | P    | P    | P    | P    | P    | P    | P    | P    | P  | P  | P  | P                                   | P  | P  | P  | P  | P  | P  | P     | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  | P  |           |  |
| 3         | 1    | 50                                  | 1    | 53   | 1    | 55   | 1    | 58   | 2    | 0    | 2    | 3  | 2  | 6  | 2                                   | 8  | 2  | 10 | 2  | 12 | 2  | 14    | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 24 | 2  | 26 | 2  | 28        |  |
| 3         | 1    | 48                                  | 1    | 51   | 1    | 53   | 1    | 56   | 1    | 59   | 2    | 2  | 2  | 4  | 2                                   | 7  | 2  | 9  | 2  | 11 | 2  | 13    | 2  | 15 | 2  | 17 | 2  | 19 | 2  | 21 | 2  | 23 | 2  | 25 | 2  | 27        |  |
| 6         | 1    | 46                                  | 1    | 48   | 1    | 51   | 1    | 54   | 1    | 57   | 2    | 0  | 2  | 2  | 2                                   | 5  | 2  | 8  | 2  | 10 | 2  | 12    | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 24 | 2  | 26        |  |
| 9         | 1    | 43                                  | 1    | 45   | 1    | 48   | 1    | 51   | 1    | 54   | 1    | 57 | 2  | 0  | 2                                   | 3  | 2  | 6  | 2  | 8  | 2  | 10    | 2  | 12 | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22 | 2  | 24        |  |
| 12        | 1    | 40                                  | 1    | 42   | 1    | 45   | 1    | 48   | 1    | 51   | 1    | 54 | 1  | 57 | 2                                   | 0  | 2  | 3  | 2  | 6  | 2  | 8     | 2  | 10 | 2  | 12 | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 20 | 2  | 22        |  |
| 15        | 1    | 36                                  | 1    | 39   | 1    | 42   | 1    | 45   | 1    | 48   | 1    | 51 | 1  | 54 | 1                                   | 57 | 2  | 0  | 2  | 3  | 2  | 6     | 2  | 8  | 2  | 10 | 2  | 12 | 2  | 14 | 2  | 16 | 2  | 18 | 2  | 20        |  |
| 18        | 1    | 32                                  | 1    | 35   | 1    | 38   | 1    | 41   | 1    | 45   | 1    | 48 | 1  | 51 | 1                                   | 54 | 1  | 57 | 2  | 0  | 2  | 3     | 2  | 6  | 2  | 8  | 2  | 10 | 2  | 12 | 2  | 14 | 2  | 16 | 2  | 18        |  |
| 21        | 1    | 27                                  | 1    | 31   | 1    | 34   | 1    | 38   | 1    | 41   | 1    | 44 | 1  | 47 | 1                                   | 50 | 1  | 53 | 1  | 56 | 1  | 59    | 2  | 2  | 2  | 4  | 2  | 7  | 2  | 10 | 2  | 13 | 2  | 16 | 2  | 19        |  |
| 24        | 1    | 22                                  | 1    | 26   | 1    | 29   | 1    | 33   | 1    | 36   | 1    | 40 | 1  | 43 | 1                                   | 46 | 1  | 49 | 1  | 52 | 1  | 55    | 1  | 58 | 2  | 0  | 2  | 3  | 2  | 6  | 2  | 9  | 2  | 12 | 2  | 15        |  |
| 27        | 1    | 17                                  | 1    | 21   | 1    | 24   | 1    | 28   | 1    | 31   | 1    | 35 | 1  | 38 | 1                                   | 42 | 1  | 45 | 1  | 49 | 1  | 52    | 1  | 55 | 1  | 58 | 2  | 0  | 2  | 3  | 2  | 6  | 2  | 9  | 2  | 12        |  |
| 4         | 1    | 12                                  | 1    | 16   | 1    | 19   | 1    | 23   | 1    | 26   | 1    | 30 | 1  | 33 | 1                                   | 37 | 1  | 40 | 1  | 44 | 1  | 47    | 1  | 50 | 1  | 53 | 1  | 56 | 1  | 59 | 2  | 2  | 2  | 5  | 2  | 8         |  |
| 3         | 1    | 6                                   | 1    | 10   | 1    | 13   | 1    | 17   | 1    | 21   | 1    | 25 | 1  | 28 | 1                                   | 32 | 1  | 35 | 1  | 39 | 1  | 42    | 1  | 45 | 1  | 49 | 1  | 52 | 1  | 55 | 1  | 58 | 2  | 0  | 2  | 3         |  |
| 6         | 1    | 0                                   | 1    | 4    | 1    | 7    | 1    | 11   | 1    | 15   | 1    | 19 | 1  | 22 | 1                                   | 26 | 1  | 30 | 1  | 33 | 1  | 37    | 1  | 40 | 1  | 44 | 1  | 47 | 1  | 50 | 1  | 53 | 1  | 56 | 1  | 59        |  |
| 9         | 0    | 54                                  | 0    | 57   | 1    | 1    | 1    | 5    | 1    | 9    | 1    | 13 | 1  | 16 | 1                                   | 20 | 1  | 24 | 1  | 27 | 1  | 31    | 1  | 34 | 1  | 38 | 1  | 41 | 1  | 45 | 1  | 48 | 1  | 51 | 1  | 55        |  |
| 12        | 0    | 47                                  | 0    | 51   | 0    | 55   | 0    | 59   | 1    | 3    | 1    | 7  | 1  | 10 | 1                                   | 14 | 1  | 18 | 1  | 21 | 1  | 25    | 1  | 29 | 1  | 32 | 1  | 36 | 1  | 40 | 1  | 43 | 1  | 47 | 1  | 50        |  |
| 15        | 0    | 41                                  | 0    | 44   | 0    | 48   | 0    | 52   | 0    | 56   | 1    | 0  | 1  | 4  | 1                                   | 8  | 1  | 12 | 1  | 15 | 1  | 19    | 1  | 22 | 1  | 26 | 1  | 30 | 1  | 33 | 1  | 37 | 1  | 40 | 1  | 44        |  |
| 18        | 0    | 34                                  | 0    | 37   | 0    | 41   | 0    | 45   | 0    | 49   | 0    | 53 | 0  | 57 | 1                                   | 1  | 5  | 9  | 1  | 13 | 1  | 17    | 1  | 21 | 1  | 25 | 1  | 29 | 1  | 32 | 1  | 36 | 1  | 40 | 1  | 43        |  |
| 21        | 0    | 26                                  | 0    | 30   | 0    | 34   | 0    | 38   | 0    | 42   | 0    | 46 | 0  | 50 | 0                                   | 54 | 0  | 58 | 1  | 2  | 6  | 10    | 14 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 58 |    |           |  |
| 24        | 0    | 19                                  | 0    | 23   | 0    | 27   | 0    | 31   | 0    | 35   | 0    | 39 | 0  | 43 | 0                                   | 47 | 0  | 51 | 0  | 55 | 1  | 2     | 6  | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 |           |  |
| 27        | 0    | 11                                  | 0    | 15   | 0    | 20   | 0    | 24   | 0    | 28   | 0    | 32 | 0  | 36 | 0                                   | 40 | 0  | 44 | 0  | 48 | 1  | 2     | 6  | 10 | 14 | 18 | 22 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 |           |  |
| 5         | 0    | A                                   | 4    | 0    | 8    | 0    | 12   | 0    | 16   | 0    | 20   | 0  | 24 | 0  | 28                                  | 0  | 32 | 0  | 36 | 0  | 40 | 0     | 44 | 0  | 48 | 0  | 52 | 0  | 56 | 0  | 60 | 0  | 64 | 0  | 68 |           |  |
| 3         | 0    | A                                   | 4    | 0    | A    | 0    | 4    | 0    | 8    | 0    | 12   | 0  | 16 | 0  | 20                                  | 0  | 24 | 0  | 28 | 0  | 32 | 0     | 36 | 0  | 40 | 0  | 44 | 0  | 48 | 0  | 52 | 0  | 56 | 0  | 60 |           |  |
| 6         | 0    | 12                                  | 0    | 8    | 0    | A    | 4    | 0    | A    | 0    | 4    | 0  | 8  | 0  | 12                                  | 0  | 16 | 0  | 20 | 0  | 24 | 0     | 28 | 0  | 32 | 0  | 36 | 0  | 40 | 0  | 44 | 0  | 48 | 0  | 52 |           |  |
| 9         | 0    | 19                                  | 0    | 16   | 0    | 12   | 0    | 8    | 0    | A    | 4    | 0  | A  | 0  | 4                                   | 0  | 8  | 0  | 12 | 0  | 16 | 0     | 20 | 0  | 24 | 0  | 28 | 0  | 32 | 0  | 36 | 0  | 40 | 0  | 44 |           |  |
| 12        | 0    | 27                                  | 0    | 24   | 0    | 20   | 0    | 16   | 0    | 12   | 0    | 8  | 0  | A  | 4                                   | 0  | A  | 0  | 4  | 0  | 8  | 0     | 12 | 0  | 16 | 0  | 20 | 0  | 24 | 0  | 28 | 0  | 32 | 0  | 36 |           |  |
| 15        | 0    | 35                                  | 0    | 32   | 0    | 28   | 0    | 24   | 0    | 20   | 0    | 16 | 0  | 12 | 0                                   | 8  | 0  | A  | 4  | 0  | A  | 0     | 4  | 0  | 8  | 0  | 12 | 0  | 16 | 0  | 20 | 0  | 24 | 0  | 28 |           |  |
| 18        | 0    | 43                                  | 0    | 40   | 0    | 36   | 0    | 32   | 0    | 28   | 0    | 24 | 0  | 20 | 0                                   | 16 | 0  | 12 | 0  | A  | 4  | 0     | A  | 0  | 4  | 0  | 8  | 0  | 12 | 0  | 16 | 0  | 20 | 0  | 24 |           |  |
| 21        | 0    | 51                                  | 0    | 48   | 0    | 44   | 0    | 40   | 0    | 37   | 0    | 33 | 0  | 29 | 0                                   | 25 | 0  | 21 | 0  | 17 | 0  | 13    | 0  | 9  | 0  | 5  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  |    |           |  |
| 24        | 0    | 59                                  | 0    | 56   | 0    | 52   | 0    | 48   | 0    | 45   | 0    | 41 | 0  | 37 | 0                                   | 33 | 0  | 29 | 0  | 25 | 0  | 21    | 0  | 17 | 0  | 13 | 0  | 9  | 0  | 5  | 0  | 1  | 0  | 0  |    |           |  |
| 27        | 1    | 7                                   | 1    | 4    | 1    | 0    | 56   | 0    | 53   | 0    | 49   | 0  | 45 | 0  | 41                                  | 0  | 37 | 0  | 33 | 0  | 29 | 0     | 25 | 0  | 21 | 0  | 17 | 0  | 13 | 0  | 9  | 0  | 5  | 0  |    |           |  |
| 6         | 1    | 14                                  | 1    | 11   | 1    | 7    | 1    | 4    | 1    | 0    | 56   | 0  | 53 | 0  | 49                                  | 0  | 45 | 0  | 41 | 0  | 37 | 0     | 33 | 0  | 29 | 0  | 25 | 0  | 21 | 0  | 17 | 0  | 13 | 0  |    |           |  |
|           |      | Subtrahe                            |      |      |      |      |      |      |      |      |      |    |    |    |                                     |    |    |    |    |    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |
| 3         | 19/3 | 18/3                                | 17/3 | 16/3 | 15/3 | 14/3 | 13/3 | 12/3 | 11/3 | 10   |      |    |    |    | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    |           |  |
| comparata |      |                                     |      |      |      |      |      |      |      |      |      |    |    |    |                                     |    |    |    |    |    |    |       |    |    |    |    |    |    |    |    |    |    |    |    |    | comparata |  |







# Ac Tab. Secundorum Mobilium.

151 385

Compositæ & absoluta Lunæ.

| Anom. |   |    |
|-------|---|----|
| 19    | 2 | 20 |
| 45    | 0 | 41 |
| 53    | 0 | 50 |
| 1     | 0 | 58 |
| 9     | 1 | 6  |
| 16    | 1 | 13 |
| 24    | 1 | 21 |
| 31    | 1 | 28 |
| 38    | 1 | 35 |
| 45    | 1 | 41 |
| 51    | 1 | 48 |
| 57    | 1 | 54 |
| 3     | 2 | 0  |
| 8     | 2 | 5  |
| 13    | 2 | 10 |
| 18    | 2 | 15 |
| 22    | 2 | 20 |
| 26    | 2 | 24 |
| 30    | 2 | 28 |
| 33    | 2 | 31 |
| 35    | 2 | 34 |
| 37    | 2 | 36 |
| 39    | 2 | 38 |
| 41    | 2 | 39 |
| 42    | 2 | 40 |
| 43    | 2 | 41 |
| 43    | 2 | 41 |
| 42    | 2 | 41 |
| 41    | 2 | 40 |
| 40    | 2 | 39 |
| 38    | 2 | 37 |
| 11    | 3 | 10 |

| Anom.    |   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |   |    |  |
|----------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|---|----|--|
|          |   | 2                                   | 11 | 2  | 12 | 2  | 13 | 2  | 14 | 2  | 15 | 2  | 16 | 2  | 17 | 2  | 18 | 2  | 19 | 2  | 20 |          |   |    |  |
|          |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |   |    |  |
|          |   | P                                   | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P        | / |    |  |
| 2        | 3 | 37                                  | 2  | 37 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 38 | 2  | 37 | 2  | 37       | 2 | 3  |  |
| 3        | 3 | 34                                  | 2  | 34 | 2  | 35 | 2  | 35 | 2  | 35 | 2  | 35 | 2  | 35 | 2  | 36 | 2  | 36 | 2  | 35 | 2  | 35       | 2 | 27 |  |
| 6        | 3 | 30                                  | 2  | 31 | 2  | 31 | 2  | 31 | 2  | 32 | 2  | 32 | 2  | 32 | 2  | 33 | 2  | 33 | 2  | 33 | 2  | 33       | 2 | 24 |  |
| 9        | 3 | 27                                  | 2  | 28 | 2  | 28 | 2  | 28 | 2  | 29 | 2  | 29 | 2  | 29 | 2  | 30 | 2  | 30 | 2  | 30 | 2  | 30       | 2 | 21 |  |
| 12       | 3 | 23                                  | 2  | 24 | 2  | 24 | 2  | 25 | 2  | 26 | 2  | 26 | 2  | 26 | 2  | 27 | 2  | 27 | 2  | 27 | 2  | 27       | 2 | 18 |  |
| 15       | 3 | 19                                  | 2  | 20 | 2  | 20 | 2  | 21 | 2  | 22 | 2  | 22 | 2  | 23 | 2  | 23 | 2  | 23 | 2  | 23 | 2  | 23       | 2 | 15 |  |
| 18       | 3 | 14                                  | 2  | 15 | 2  | 16 | 4  | 16 | 2  | 17 | 2  | 18 | 2  | 19 | 2  | 19 | 2  | 19 | 2  | 19 | 2  | 20       | 2 | 12 |  |
| 21       | 3 | 9                                   | 2  | 10 | 2  | 11 | 2  | 12 | 2  | 13 | 2  | 14 | 2  | 15 | 2  | 15 | 2  | 15 | 2  | 15 | 2  | 16       | 2 | 9  |  |
| 24       | 3 | 4                                   | 2  | 5  | 2  | 6  | 2  | 7  | 2  | 8  | 2  | 9  | 2  | 10 | 2  | 10 | 2  | 11 | 2  | 11 | 2  | 11       | 2 | 6  |  |
| 27       | 3 | 59                                  | 2  | 0  | 2  | 1  | 2  | 2  | 2  | 3  | 2  | 4  | 2  | 5  | 2  | 6  | 2  | 6  | 2  | 7  | 2  | 7        | 2 | 3  |  |
| IO       | 3 | 54                                  | 1  | 55 | 1  | 56 | 1  | 57 | 1  | 58 | 1  | 59 | 2  | 0  | 2  | 1  | 2  | 1  | 2  | 2  | 2  | 2        | 2 | 2  |  |
| 3        | 3 | 48                                  | 1  | 49 | 1  | 51 | 1  | 52 | 1  | 53 | 1  | 54 | 1  | 55 | 1  | 56 | 1  | 56 | 1  | 57 | 1  | 57       | 1 | 27 |  |
| 6        | 3 | 42                                  | 1  | 43 | 1  | 45 | 1  | 46 | 1  | 47 | 1  | 48 | 1  | 49 | 1  | 50 | 1  | 51 | 1  | 51 | 1  | 51       | 1 | 24 |  |
| 9        | 3 | 36                                  | 1  | 37 | 1  | 39 | 1  | 40 | 1  | 41 | 1  | 42 | 1  | 43 | 1  | 44 | 1  | 45 | 1  | 46 | 1  | 46       | 1 | 21 |  |
| 12       | 3 | 30                                  | 1  | 31 | 1  | 33 | 1  | 34 | 1  | 35 | 1  | 36 | 1  | 37 | 1  | 38 | 1  | 39 | 1  | 40 | 1  | 40       | 1 | 18 |  |
| 15       | 3 | 24                                  | 1  | 25 | 1  | 27 | 1  | 27 | 1  | 29 | 1  | 30 | 1  | 31 | 1  | 32 | 1  | 33 | 1  | 34 | 1  | 34       | 1 | 15 |  |
| 18       | 3 | 17                                  | 1  | 18 | 1  | 20 | 1  | 21 | 1  | 22 | 1  | 23 | 1  | 24 | 1  | 25 | 1  | 26 | 1  | 27 | 1  | 27       | 1 | 12 |  |
| 21       | 3 | 11                                  | 1  | 12 | 1  | 14 | 1  | 15 | 1  | 16 | 1  | 17 | 1  | 18 | 1  | 19 | 1  | 20 | 1  | 21 | 1  | 21       | 1 | 9  |  |
| 24       | 3 | 4                                   | 1  | 5  | 1  | 7  | 1  | 8  | 1  | 9  | 1  | 10 | 1  | 11 | 1  | 12 | 1  | 14 | 1  | 15 | 1  | 15       | 1 | 6  |  |
| 27       | 3 | 58                                  | 0  | 59 | 0  | 0  | 1  | 1  | 1  | 2  | 1  | 4  | 1  | 5  | 1  | 6  | 1  | 7  | 1  | 8  | 1  | 8        | 1 | 3  |  |
| IO       | 3 | 51                                  | 0  | 52 | 0  | 53 | 0  | 54 | 0  | 55 | 0  | 57 | 0  | 58 | 0  | 59 | 1  | 0  | 1  | 1  | 1  | 1        | 1 | 1  |  |
| 3        | 3 | 44                                  | 0  | 45 | 0  | 46 | 0  | 47 | 0  | 48 | 0  | 50 | 0  | 51 | 0  | 52 | 0  | 53 | 0  | 54 | 0  | 54       | 0 | 27 |  |
| 6        | 3 | 37                                  | 0  | 38 | 0  | 39 | 0  | 40 | 0  | 41 | 0  | 43 | 0  | 44 | 0  | 45 | 0  | 46 | 0  | 47 | 0  | 47       | 0 | 24 |  |
| 9        | 3 | 30                                  | 0  | 31 | 0  | 32 | 0  | 33 | 0  | 34 | 0  | 36 | 0  | 37 | 0  | 38 | 0  | 39 | 0  | 40 | 0  | 40       | 0 | 21 |  |
| 12       | 3 | 23                                  | 0  | 24 | 0  | 25 | 0  | 26 | 0  | 27 | 0  | 29 | 0  | 30 | 0  | 31 | 0  | 32 | 0  | 33 | 0  | 33       | 0 | 18 |  |
| 15       | 3 | 16                                  | 0  | 17 | 0  | 18 | 0  | 19 | 0  | 20 | 0  | 22 | 0  | 23 | 0  | 24 | 0  | 25 | 0  | 26 | 0  | 26       | 0 | 15 |  |
| 18       | 3 | 9                                   | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 18 | 0  | 19 | 0  | 19       | 0 | 12 |  |
| 21       | 3 | 2                                   | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 11 | 0  | 12 | 0  | 12       | 0 | 9  |  |
| 24       | 3 | S                                   | 0  | S  | 0  | S  | 0  | S  | 0  | S  | 0  | S  | 0  | 1  | 0  | S  | 0  | S  | 0  | S  | 0  | S        | 0 | 6  |  |
| 27       | 3 | 5                                   | 0  | 4  | 0  | 3  | 0  | 2  | 0  | 1  | 0  | S  | 0  | 0  | 0  | S  | 0  | S  | 0  | S  | 0  | S        | 0 | 3  |  |
| IO       | 3 | 12                                  | 0  | 11 | 0  | 10 | 0  | 9  | 0  | 8  | 0  | 7  | 0  | S  | 0  | 6  | 0  | S  | 0  | S  | 0  | S        | 0 | 3  |  |
| 12       | 3 | 18                                  | 0  | 17 | 0  | 16 | 0  | 15 | 0  | 15 | 0  | 14 | 0  | 13 | 0  | 12 | 0  | 11 | 0  | 10 | 0  | 10       | 0 | 0  |  |
|          |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |   |    |  |
|          |   | 3                                   | 19 | 3  | 18 | 3  | 17 | 3  | 16 | 3  | 15 | 3  | 14 | 3  | 13 | 3  | 12 | 3  | 11 | 3  | 10 |          |   |    |  |
|          |   | Distantia vera ☉ à ☿, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |   |    |  |
| conquata |   |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | conquata |   |    |  |



| Anom. |   | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom. |    |  |  |
|-------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|--|--|
|       |   | 21                                  | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |    |    |    |    |    |    |    |    |       |    |  |  |
|       |   | Subtrahe                            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |
|       |   | P                                   | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  |       |    |  |  |
| 0     | 0 | 9                                   | 0  | 8  | 0  | 7  | 0  | 6  | 0  | 5  | 0  | 4  | 0  | 3  | 0  | 2  | 0  | 1  | 0  | 0     | 12 |  |  |
| 3     | 0 | 16                                  | 0  | 15 | 0  | 14 | 0  | 13 | 0  | 12 | 0  | 11 | 0  | 10 | 0  | 9  | 0  | 8  | 0  | 7     | 27 |  |  |
| 6     | 0 | 23                                  | 0  | 22 | 0  | 21 | 0  | 20 | 0  | 20 | 0  | 18 | 0  | 18 | 0  | 17 | 0  | 16 | 0  | 15    | 24 |  |  |
| 9     | 0 | 30                                  | 0  | 29 | 0  | 28 | 0  | 27 | 0  | 27 | 0  | 26 | 0  | 25 | 0  | 24 | 0  | 23 | 0  | 22    | 21 |  |  |
| 12    | 0 | 37                                  | 0  | 36 | 0  | 35 | 0  | 34 | 0  | 34 | 0  | 33 | 0  | 32 | 0  | 31 | 0  | 30 | 0  | 29    | 18 |  |  |
| 15    | 0 | 44                                  | 0  | 43 | 0  | 42 | 0  | 41 | 0  | 41 | 0  | 40 | 0  | 39 | 0  | 38 | 0  | 37 | 0  | 36    | 15 |  |  |
| 18    | 0 | 50                                  | 0  | 49 | 0  | 49 | 0  | 48 | 0  | 47 | 0  | 46 | 0  | 46 | 0  | 45 | 0  | 44 | 0  | 43    | 12 |  |  |
| 21    | 0 | 57                                  | 0  | 56 | 0  | 56 | 0  | 55 | 0  | 54 | 0  | 53 | 0  | 53 | 0  | 52 | 0  | 51 | 0  | 50    | 9  |  |  |
| 24    | 1 | 3                                   | 1  | 2  | 1  | 2  | 1  | 1  | 0  | 1  | 0  | 0  | 59 | 0  | 58 | 0  | 57 | 0  | 57 | 0     | 6  |  |  |
| 27    | 1 | 9                                   | 1  | 9  | 1  | 8  | 1  | 8  | 1  | 7  | 1  | 6  | 1  | 6  | 1  | 5  | 1  | 4  | 1  | 4     | 3  |  |  |
| 30    | 1 | 15                                  | 1  | 15 | 1  | 14 | 1  | 14 | 1  | 13 | 1  | 13 | 1  | 12 | 1  | 11 | 1  | 11 | 1  | 10    | 11 |  |  |
| 33    | 1 | 21                                  | 1  | 21 | 1  | 20 | 1  | 20 | 1  | 19 | 1  | 19 | 1  | 19 | 1  | 18 | 1  | 18 | 1  | 17    | 27 |  |  |
| 36    | 1 | 26                                  | 1  | 26 | 1  | 26 | 1  | 26 | 1  | 25 | 1  | 25 | 1  | 25 | 1  | 24 | 1  | 24 | 1  | 23    | 24 |  |  |
| 39    | 1 | 32                                  | 1  | 32 | 1  | 32 | 1  | 32 | 1  | 31 | 1  | 31 | 1  | 31 | 1  | 30 | 1  | 30 | 1  | 29    | 21 |  |  |
| 42    | 1 | 37                                  | 1  | 37 | 1  | 37 | 1  | 37 | 1  | 36 | 1  | 36 | 1  | 36 | 1  | 36 | 1  | 35 | 1  | 35    | 18 |  |  |
| 45    | 1 | 42                                  | 1  | 42 | 1  | 42 | 1  | 42 | 1  | 42 | 1  | 41 | 1  | 41 | 1  | 41 | 1  | 41 | 1  | 41    | 15 |  |  |
| 48    | 1 | 46                                  | 1  | 46 | 1  | 47 | 1  | 47 | 1  | 47 | 1  | 46 | 1  | 46 | 1  | 46 | 1  | 46 | 1  | 46    | 12 |  |  |
| 51    | 1 | 50                                  | 1  | 50 | 1  | 51 | 1  | 51 | 1  | 51 | 1  | 51 | 1  | 51 | 1  | 51 | 1  | 51 | 1  | 51    | 9  |  |  |
| 54    | 1 | 54                                  | 1  | 54 | 1  | 55 | 1  | 55 | 1  | 55 | 1  | 56 | 1  | 56 | 1  | 56 | 1  | 56 | 1  | 56    | 6  |  |  |
| 57    | 1 | 58                                  | 1  | 58 | 1  | 59 | 1  | 59 | 1  | 59 | 2  | 0  | 2  | 0  | 2  | 0  | 2  | 1  | 2  | 1     | 3  |  |  |
| 60    | 2 | 1                                   | 2  | 2  | 2  | 2  | 2  | 3  | 2  | 3  | 2  | 4  | 2  | 4  | 2  | 4  | 2  | 5  | 2  | 5     | 10 |  |  |
| 3     | 2 | 4                                   | 2  | 5  | 2  | 5  | 2  | 6  | 2  | 7  | 2  | 7  | 2  | 8  | 2  | 8  | 2  | 9  | 2  | 9     | 27 |  |  |
| 6     | 2 | 7                                   | 2  | 8  | 2  | 8  | 2  | 9  | 2  | 10 | 2  | 10 | 2  | 11 | 2  | 11 | 2  | 12 | 2  | 12    | 24 |  |  |
| 9     | 2 | 9                                   | 2  | 10 | 2  | 11 | 2  | 12 | 2  | 13 | 2  | 13 | 2  | 14 | 2  | 14 | 2  | 15 | 2  | 16    | 21 |  |  |
| 12    | 2 | 11                                  | 2  | 12 | 2  | 13 | 2  | 14 | 2  | 15 | 2  | 16 | 2  | 17 | 2  | 17 | 2  | 18 | 2  | 19    | 18 |  |  |
| 15    | 2 | 12                                  | 2  | 14 | 2  | 15 | 2  | 16 | 2  | 17 | 2  | 18 | 2  | 19 | 2  | 20 | 2  | 21 | 2  | 22    | 15 |  |  |
| 18    | 2 | 13                                  | 2  | 15 | 2  | 16 | 2  | 18 | 2  | 19 | 2  | 20 | 2  | 21 | 2  | 22 | 2  | 23 | 2  | 24    | 12 |  |  |
| 21    | 2 | 14                                  | 2  | 16 | 1  | 17 | 2  | 19 | 2  | 20 | 2  | 22 | 2  | 23 | 2  | 24 | 2  | 25 | 2  | 26    | 9  |  |  |
| 24    | 2 | 15                                  | 2  | 17 | 2  | 18 | 2  | 20 | 2  | 21 | 2  | 23 | 2  | 24 | 2  | 25 | 2  | 26 | 2  | 27    | 6  |  |  |
| 27    | 2 | 16                                  | 2  | 18 | 2  | 19 | 2  | 21 | 2  | 22 | 2  | 24 | 2  | 25 | 2  | 26 | 2  | 27 | 2  | 28    | 3  |  |  |
| 30    | 2 | 17                                  | 2  | 19 | 2  | 20 | 2  | 22 | 2  | 23 | 2  | 25 | 2  | 26 | 2  | 27 | 2  | 28 | 2  | 29    | 0  |  |  |
| 33    | 2 | 18                                  | 2  | 20 | 2  | 21 | 2  | 23 | 2  | 24 | 2  | 26 | 2  | 27 | 2  | 28 | 2  | 29 | 2  | 30    |    |  |  |
|       |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |
|       |   | 9                                   | 3  | 8  | 3  | 7  | 3  | 6  | 3  | 5  | 3  | 4  | 3  | 3  | 3  | 2  | 3  | 1  | 3  | 0     |    |  |  |
|       |   | Distantia vera ☉ à ☿, vel ab eius ☉ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |



# Ac Tab. Secundorum Mobilium.

Composita & absolute Luna.

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376

| Anom. |   |    |
|-------|---|----|
| 29    | 3 | 0  |
| 1     | P | 1  |
| 10    | 0 | 12 |
| 8     | 0 | 27 |
| 16    | 0 | 24 |
| 23    | 0 | 21 |
| 30    | 0 | 18 |
| 37    | 0 | 15 |
| 44    | 0 | 12 |
| 51    | 0 | 9  |
| 57    | 0 | 6  |
| 4     | 1 | 3  |
| 11    | 1 | 11 |
| 18    | 1 | 27 |
| 24    | 1 | 24 |
| 30    | 1 | 21 |
| 35    | 1 | 18 |
| 41    | 1 | 15 |
| 46    | 1 | 12 |
| 51    | 1 | 9  |
| 56    | 1 | 6  |
| 1     | 2 | 3  |
| 5     | 2 | 10 |
| 9     | 2 | 27 |
| 12    | 2 | 24 |
| 15    | 2 | 21 |
| 18    | 2 | 18 |
| 21    | 2 | 15 |
| 23    | 2 | 12 |
| 25    | 2 | 9  |
| 26    | 2 | 6  |
| 27    | 2 | 3  |
| 28    | 2 | 0  |
| 1     | 3 | 0  |

| Anom. |  | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    | Anom. |    |    |  |
|-------|--|-------------------------------------|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|---|----|-------|----|----|--|
|       |  | 2                                   | 21 | 2 | 22 | 2 | 23 | 2 | 24 | 2 | 25 | 2 | 26 | 2 | 27 | 2 | 28 | 2 | 29 | 3     | 0  |    |  |
|       |  | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |       |    |    |  |
|       |  | P                                   | 7  | P | 1  | P | 1  | P | 1  | P | 1  | P | 1  | P | 1  | P | 1  | P | 1  | P     | 1  |    |  |
| 3     |  | 2                                   | 14 | 2 | 16 | 2 | 18 | 2 | 20 | 2 | 22 | 2 | 23 | 2 | 25 | 2 | 26 | 2 | 28 | 2     | 29 | 9  |  |
| 3     |  | 2                                   | 13 | 2 | 15 | 2 | 17 | 2 | 19 | 2 | 21 | 2 | 23 | 2 | 25 | 2 | 26 | 2 | 28 | 2     | 29 | 27 |  |
| 6     |  | 2                                   | 12 | 2 | 14 | 2 | 16 | 2 | 18 | 2 | 20 | 2 | 22 | 2 | 24 | 2 | 26 | 2 | 28 | 2     | 30 | 24 |  |
| 9     |  | 2                                   | 11 | 2 | 13 | 2 | 15 | 2 | 17 | 2 | 19 | 2 | 21 | 2 | 23 | 2 | 25 | 2 | 27 | 2     | 29 | 21 |  |
| 12    |  | 2                                   | 9  | 2 | 11 | 2 | 13 | 2 | 15 | 2 | 18 | 2 | 20 | 2 | 22 | 2 | 24 | 2 | 26 | 2     | 28 | 18 |  |
| 15    |  | 2                                   | 6  | 2 | 9  | 2 | 11 | 2 | 13 | 2 | 16 | 2 | 18 | 2 | 20 | 2 | 23 | 2 | 25 | 2     | 27 | 15 |  |
| 18    |  | 2                                   | 3  | 2 | 6  | 2 | 8  | 2 | 11 | 2 | 13 | 2 | 16 | 2 | 18 | 2 | 21 | 2 | 23 | 2     | 25 | 12 |  |
| 21    |  | 2                                   | 0  | 2 | 3  | 2 | 5  | 2 | 8  | 2 | 11 | 2 | 13 | 2 | 16 | 2 | 19 | 2 | 21 | 2     | 23 | 9  |  |
| 24    |  | 1                                   | 56 | 1 | 59 | 2 | 2  | 2 | 5  | 2 | 8  | 2 | 10 | 2 | 13 | 2 | 16 | 2 | 18 | 2     | 20 | 6  |  |
| 27    |  | 1                                   | 52 | 1 | 55 | 1 | 58 | 2 | 1  | 2 | 4  | 2 | 7  | 2 | 10 | 2 | 13 | 2 | 15 | 2     | 17 | 3  |  |
| 4     |  | 1                                   | 47 | 1 | 51 | 1 | 54 | 1 | 57 | 2 | 0  | 2 | 3  | 2 | 6  | 2 | 9  | 2 | 12 | 2     | 14 | 8  |  |
| 3     |  | 1                                   | 42 | 1 | 46 | 1 | 49 | 1 | 52 | 1 | 56 | 1 | 59 | 2 | 2  | 2 | 5  | 2 | 8  | 2     | 10 | 27 |  |
| 6     |  | 1                                   | 37 | 1 | 41 | 1 | 44 | 1 | 47 | 1 | 51 | 1 | 54 | 1 | 57 | 2 | 0  | 2 | 4  | 2     | 6  | 24 |  |
| 9     |  | 1                                   | 31 | 1 | 35 | 1 | 38 | 1 | 42 | 1 | 46 | 1 | 49 | 1 | 52 | 1 | 55 | 1 | 59 | 2     | 2  | 21 |  |
| 12    |  | 1                                   | 25 | 1 | 29 | 1 | 32 | 1 | 36 | 1 | 40 | 1 | 43 | 1 | 47 | 1 | 50 | 1 | 54 | 1     | 57 | 18 |  |
| 15    |  | 1                                   | 19 | 1 | 23 | 1 | 26 | 1 | 30 | 1 | 34 | 1 | 37 | 1 | 41 | 1 | 45 | 1 | 48 | 1     | 52 | 15 |  |
| 18    |  | 1                                   | 13 | 1 | 16 | 1 | 20 | 1 | 24 | 1 | 28 | 1 | 31 | 1 | 35 | 1 | 39 | 1 | 42 | 1     | 46 | 12 |  |
| 21    |  | 1                                   | 6  | 1 | 10 | 1 | 14 | 1 | 18 | 1 | 22 | 1 | 25 | 1 | 29 | 1 | 33 | 1 | 36 | 1     | 40 | 9  |  |
| 24    |  | 0                                   | 59 | 1 | 3  | 1 | 7  | 1 | 11 | 1 | 15 | 1 | 18 | 1 | 22 | 1 | 26 | 1 | 29 | 1     | 33 | 6  |  |
| 27    |  | 0                                   | 52 | 0 | 56 | 1 | 0  | 1 | 4  | 1 | 8  | 1 | 11 | 1 | 15 | 1 | 19 | 1 | 23 | 1     | 27 | 3  |  |
| 5     |  | 0                                   | 44 | 0 | 48 | 0 | 52 | 0 | 56 | 1 | 0  | 1 | 4  | 1 | 8  | 1 | 12 | 1 | 16 | 1     | 20 | 7  |  |
| 3     |  | 0                                   | 36 | 0 | 41 | 0 | 45 | 0 | 49 | 0 | 53 | 0 | 57 | 1 | 1  | 1 | 5  | 1 | 9  | 1     | 13 | 27 |  |
| 6     |  | 0                                   | 28 | 0 | 33 | 0 | 37 | 0 | 41 | 0 | 45 | 0 | 49 | 0 | 53 | 0 | 57 | 1 | 1  | 1     | 5  | 24 |  |
| 9     |  | 0                                   | 20 | 0 | 25 | 0 | 29 | 0 | 33 | 0 | 37 | 0 | 41 | 0 | 45 | 0 | 50 | 0 | 54 | 0     | 58 | 21 |  |
| 12    |  | 0                                   | 12 | 0 | 17 | 0 | 21 | 0 | 25 | 0 | 29 | 0 | 33 | 0 | 37 | 0 | 42 | 0 | 46 | 0     | 50 | 18 |  |
| 15    |  | 0                                   | 4  | 0 | 8  | 0 | 13 | 0 | 17 | 0 | 21 | 0 | 25 | 0 | 29 | 0 | 34 | 0 | 38 | 0     | 42 | 15 |  |
| 18    |  | 0                                   | A  | 0 | A  | 0 | A  | 0 | 8  | 0 | 13 | 0 | 17 | 0 | 21 | 0 | 25 | 0 | 29 | 0     | 33 | 12 |  |
| 21    |  | 0                                   | 13 | 0 | 9  | 0 | 4  | 0 | A  | 0 | 4  | 0 | 9  | 0 | 13 | 0 | 17 | 0 | 21 | 0     | 25 | 9  |  |
| 24    |  | 0                                   | 21 | 0 | 17 | 0 | 12 | 0 | 8  | 0 | A  | 0 | A  | 0 | A  | 0 | 9  | 0 | 13 | 0     | 17 | 6  |  |
| 27    |  | 0                                   | 29 | 0 | 25 | 0 | 21 | 0 | 17 | 0 | 13 | 0 | 9  | 0 | 5  | 0 | A  | 0 | 4  | 0     | 9  | 3  |  |
| 6     |  | 0                                   | 37 | 0 | 33 | 0 | 29 | 0 | 25 | 0 | 21 | 0 | 17 | 0 | 13 | 0 | 9  | 0 | A  | 0     | 4  | 0  |  |
|       |  | Subtrahe                            |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |       |    |    |  |
|       |  | 3                                   | 9  | 3 | 8  | 3 | 7  | 3 | 6  | 3 | 5  | 3 | 4  | 3 | 3  | 3 | 2  | 3 | 1  | 3     | 0  |    |  |
|       |  | Distantia vera ☉ à ☿, vel ab eius ♀ |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |   |    |       |    |    |  |



## Supplementum Ephemeridum,

## Tabula Aequationis Eccentricitatis

| Distantia vera ☉ à ☿, vel ab eius ☿ |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |
|-------------------------------------|---|----|---|----|---|----|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|
| Anom.                               | 2 | 21 | 2 | 22 | 2 | 23 | 2 | 24 | 2  | 25 | 2  | 26 | 2  | 27 | 2  | 28 | 2  | 29 | 3  | 0  |          |
| Adde                                |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
|                                     | P | /  | P | /  | P | /  | P | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  |          |
| 6                                   | 0 | 37 | 0 | 33 | 0 | 29 | 0 | 25 | 0  | 21 | 0  | 17 | 0  | 13 | 0  | 9  | 0  | 4  | 0  | 0  | 6        |
| 3                                   | 0 | 46 | 0 | 42 | 0 | 38 | 0 | 34 | 0  | 30 | 0  | 25 | 0  | 21 | 0  | 17 | 0  | 13 | 0  | 9  | 27       |
| 6                                   | 0 | 54 | 0 | 50 | 0 | 46 | 0 | 42 | 0  | 38 | 0  | 33 | 0  | 29 | 0  | 25 | 0  | 21 | 0  | 17 | 24       |
| 9                                   | 1 | 2  | 0 | 58 | 0 | 54 | 0 | 50 | 0  | 46 | 0  | 42 | 0  | 38 | 0  | 34 | 0  | 29 | 0  | 25 | 21       |
| 12                                  | 1 | 9  | 1 | 5  | 1 | 2  | 0 | 58 | 0  | 54 | 0  | 50 | 0  | 46 | 0  | 42 | 0  | 37 | 0  | 33 | 18       |
| 15                                  | 1 | 17 | 1 | 13 | 1 | 10 | 1 | 6  | 1  | 2  | 0  | 58 | 0  | 54 | 0  | 50 | 0  | 46 | 0  | 42 | 15       |
| 18                                  | 1 | 24 | 1 | 20 | 1 | 17 | 1 | 13 | 1  | 9  | 1  | 6  | 1  | 2  | 0  | 58 | 0  | 54 | 0  | 50 | 12       |
| 21                                  | 1 | 31 | 1 | 28 | 1 | 24 | 1 | 21 | 1  | 17 | 1  | 14 | 1  | 10 | 1  | 6  | 1  | 2  | 0  | 58 | 9        |
| 24                                  | 1 | 38 | 1 | 35 | 1 | 31 | 1 | 28 | 1  | 24 | 1  | 21 | 1  | 17 | 1  | 13 | 1  | 9  | 1  | 5  | 6        |
| 27                                  | 1 | 45 | 1 | 42 | 1 | 38 | 1 | 35 | 1  | 31 | 1  | 28 | 1  | 24 | 1  | 21 | 1  | 17 | 1  | 13 | 3        |
| 7                                   | 1 | 51 | 1 | 48 | 1 | 44 | 1 | 41 | 1  | 38 | 1  | 34 | 1  | 31 | 1  | 28 | 1  | 24 | 1  | 20 | 5        |
| 3                                   | 1 | 57 | 1 | 54 | 1 | 50 | 1 | 48 | 1  | 45 | 1  | 41 | 1  | 38 | 1  | 35 | 1  | 31 | 1  | 27 | 27       |
| 6                                   | 2 | 3  | 2 | 0  | 1 | 56 | 1 | 54 | 1  | 51 | 1  | 47 | 1  | 44 | 1  | 41 | 1  | 37 | 1  | 33 | 24       |
| 9                                   | 2 | 8  | 2 | 5  | 2 | 2  | 0 | 1  | 57 | 1  | 53 | 1  | 50 | 1  | 47 | 1  | 43 | 1  | 40 | 0  | 21       |
| 12                                  | 2 | 13 | 2 | 10 | 2 | 7  | 2 | 5  | 2  | 2  | 1  | 59 | 1  | 56 | 1  | 53 | 1  | 49 | 1  | 46 | 18       |
| 15                                  | 2 | 18 | 2 | 15 | 2 | 12 | 2 | 10 | 2  | 7  | 2  | 4  | 2  | 1  | 1  | 58 | 1  | 55 | 1  | 52 | 15       |
| 18                                  | 2 | 22 | 2 | 20 | 2 | 17 | 2 | 14 | 2  | 12 | 2  | 9  | 2  | 6  | 2  | 3  | 2  | 0  | 1  | 57 | 12       |
| 21                                  | 2 | 26 | 2 | 24 | 2 | 21 | 2 | 18 | 2  | 16 | 2  | 13 | 2  | 11 | 2  | 8  | 2  | 5  | 2  | 2  | 9        |
| 24                                  | 2 | 29 | 2 | 27 | 2 | 25 | 2 | 22 | 2  | 20 | 2  | 17 | 2  | 15 | 2  | 12 | 2  | 9  | 2  | 6  | 6        |
| 27                                  | 2 | 32 | 2 | 30 | 2 | 28 | 2 | 26 | 2  | 24 | 2  | 21 | 2  | 19 | 2  | 16 | 2  | 13 | 2  | 10 | 3        |
| 8                                   | 2 | 34 | 2 | 32 | 2 | 31 | 2 | 29 | 2  | 27 | 2  | 24 | 2  | 22 | 2  | 19 | 2  | 16 | 2  | 14 | 4        |
| 3                                   | 2 | 36 | 2 | 34 | 2 | 33 | 2 | 31 | 2  | 29 | 2  | 27 | 2  | 25 | 2  | 22 | 2  | 19 | 2  | 17 | 27       |
| 6                                   | 2 | 28 | 2 | 36 | 2 | 35 | 2 | 33 | 2  | 31 | 2  | 29 | 2  | 27 | 2  | 25 | 2  | 22 | 2  | 20 | 24       |
| 9                                   | 2 | 39 | 2 | 38 | 2 | 37 | 2 | 35 | 2  | 33 | 2  | 31 | 2  | 29 | 2  | 27 | 2  | 25 | 2  | 23 | 21       |
| 12                                  | 2 | 40 | 2 | 39 | 2 | 38 | 2 | 37 | 2  | 35 | 2  | 33 | 2  | 31 | 2  | 29 | 2  | 27 | 2  | 25 | 18       |
| 15                                  | 2 | 41 | 2 | 40 | 2 | 39 | 2 | 38 | 2  | 36 | 2  | 34 | 2  | 32 | 2  | 30 | 2  | 29 | 2  | 27 | 15       |
| 18                                  | 2 | 41 | 2 | 40 | 2 | 39 | 2 | 38 | 2  | 36 | 2  | 35 | 2  | 33 | 2  | 31 | 2  | 30 | 2  | 28 | 12       |
| 21                                  | 2 | 41 | 2 | 40 | 2 | 39 | 2 | 38 | 2  | 36 | 2  | 35 | 2  | 34 | 2  | 32 | 2  | 31 | 2  | 29 | 9        |
| 24                                  | 2 | 40 | 2 | 39 | 2 | 38 | 2 | 37 | 2  | 36 | 2  | 35 | 2  | 34 | 2  | 33 | 2  | 31 | 2  | 30 | 6        |
| 27                                  | 2 | 39 | 2 | 38 | 2 | 37 | 2 | 36 | 2  | 36 | 2  | 35 | 2  | 34 | 2  | 32 | 2  | 31 | 2  | 30 | 3        |
| 0                                   | 2 | 37 | 2 | 37 | 2 | 36 | 2 | 35 | 2  | 35 | 2  | 34 | 2  | 33 | 2  | 31 | 2  | 30 | 2  | 29 | 3        |
| Subtrahe                            |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
|                                     | 3 | 9  | 3 | 8  | 3 | 7  | 3 | 6  | 3  | 5  | 3  | 4  | 3  | 3  | 3  | 2  | 3  | 1  | 3  | 0  |          |
| Distantia vera ☉ à ☿, vel ab eius ☿ |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    |          |
| conquata                            |   |    |   |    |   |    |   |    |    |    |    |    |    |    |    |    |    |    |    |    | conquata |



| Anom.    |   | Distantia vera ☉ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Anom.    |  |
|----------|---|-------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----------|--|
|          |   | 2                                   | 21 | 2  | 22 | 2  | 23 | 2  | 24 | 2  | 25 | 2  | 26 | 2  | 27 | 2  | 28 | 2  | 29 | 3  |    |          |  |
|          |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |  |
|          |   | P                                   | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  |          |  |
| 9        | 2 | 37                                  | 2  | 37 | 2  | 36 | 2  | 35 | 2  | 35 | 2  | 34 | 2  | 33 | 2  | 31 | 2  | 30 | 2  | 29 | 3  | 3        |  |
| 3        | 2 | 35                                  | 2  | 35 | 2  | 34 | 2  | 34 | 2  | 33 | 2  | 33 | 2  | 32 | 2  | 30 | 2  | 29 | 2  | 28 | 27 |          |  |
| 6        | 2 | 33                                  | 2  | 33 | 2  | 32 | 2  | 32 | 2  | 31 | 2  | 31 | 2  | 30 | 2  | 29 | 2  | 28 | 2  | 27 | 24 |          |  |
| 9        | 2 | 30                                  | 2  | 30 | 2  | 30 | 2  | 30 | 2  | 29 | 2  | 29 | 2  | 28 | 2  | 27 | 2  | 26 | 2  | 26 | 21 |          |  |
| 12       | 2 | 27                                  | 2  | 27 | 2  | 27 | 2  | 27 | 2  | 27 | 2  | 27 | 2  | 26 | 2  | 25 | 2  | 24 | 2  | 24 | 18 |          |  |
| 15       | 2 | 24                                  | 2  | 24 | 2  | 24 | 2  | 24 | 2  | 24 | 2  | 24 | 2  | 23 | 2  | 23 | 2  | 22 | 2  | 22 | 15 |          |  |
| 18       | 2 | 20                                  | 2  | 20 | 2  | 21 | 2  | 21 | 2  | 21 | 2  | 21 | 2  | 20 | 2  | 20 | 2  | 19 | 2  | 19 | 12 |          |  |
| 21       | 2 | 16                                  | 2  | 16 | 2  | 17 | 2  | 17 | 2  | 17 | 2  | 17 | 2  | 17 | 2  | 17 | 2  | 16 | 2  | 16 | 9  |          |  |
| 24       | 2 | 12                                  | 2  | 12 | 2  | 13 | 2  | 13 | 2  | 13 | 2  | 13 | 2  | 13 | 2  | 13 | 2  | 12 | 2  | 12 | 6  |          |  |
| 27       | 2 | 8                                   | 2  | 8  | 2  | 9  | 2  | 9  | 2  | 9  | 2  | 9  | 2  | 9  | 2  | 9  | 2  | 9  | 2  | 9  | 3  |          |  |
| 10       | 2 | 3                                   | 2  | 3  | 2  | 4  | 2  | 4  | 2  | 4  | 2  | 5  | 2  | 5  | 2  | 5  | 2  | 5  | 2  | 5  | 2  | 2        |  |
| 3        | 1 | 58                                  | 1  | 58 | 1  | 59 | 1  | 59 | 2  | 0  | 2  | 0  | 2  | 0  | 2  | 1  | 2  | 1  | 2  | 1  | 27 |          |  |
| 6        | 1 | 52                                  | 1  | 53 | 1  | 54 | 1  | 54 | 1  | 55 | 1  | 55 | 1  | 55 | 1  | 56 | 1  | 56 | 1  | 56 | 24 |          |  |
| 9        | 1 | 47                                  | 1  | 47 | 1  | 48 | 1  | 49 | 1  | 50 | 1  | 50 | 1  | 50 | 1  | 51 | 1  | 51 | 1  | 51 | 21 |          |  |
| 12       | 1 | 41                                  | 1  | 41 | 1  | 42 | 1  | 43 | 1  | 44 | 1  | 44 | 1  | 45 | 1  | 46 | 1  | 46 | 1  | 46 | 18 |          |  |
| 15       | 1 | 35                                  | 1  | 35 | 1  | 36 | 1  | 37 | 1  | 38 | 1  | 38 | 1  | 39 | 1  | 40 | 1  | 40 | 1  | 41 | 15 |          |  |
| 18       | 1 | 28                                  | 1  | 29 | 1  | 30 | 1  | 31 | 1  | 32 | 1  | 32 | 1  | 33 | 1  | 34 | 1  | 34 | 1  | 35 | 12 |          |  |
| 21       | 1 | 22                                  | 1  | 23 | 1  | 24 | 1  | 25 | 1  | 26 | 1  | 26 | 1  | 27 | 1  | 28 | 1  | 28 | 1  | 29 | 9  |          |  |
| 24       | 1 | 16                                  | 1  | 17 | 1  | 17 | 1  | 18 | 1  | 19 | 1  | 20 | 1  | 21 | 1  | 21 | 1  | 22 | 1  | 23 | 6  |          |  |
| 27       | 1 | 9                                   | 1  | 10 | 1  | 11 | 1  | 12 | 1  | 13 | 1  | 14 | 1  | 15 | 1  | 15 | 1  | 16 | 1  | 17 | 3  |          |  |
| 11       | 1 | 2                                   | 1  | 3  | 1  | 4  | 1  | 5  | 1  | 6  | 1  | 7  | 1  | 8  | 1  | 9  | 1  | 9  | 1  | 10 | 1  | I        |  |
| 3        | 0 | 55                                  | 0  | 56 | 0  | 57 | 0  | 58 | 0  | 59 | 1  | 0  | 1  | 1  | 2  | 1  | 3  | 1  | 4  |    | 27 |          |  |
| 6        | 0 | 48                                  | 0  | 49 | 0  | 50 | 0  | 51 | 0  | 52 | 0  | 53 | 0  | 54 | 0  | 55 | 0  | 56 | 0  | 57 | 24 |          |  |
| 9        | 0 | 41                                  | 0  | 42 | 0  | 43 | 0  | 44 | 0  | 45 | 0  | 46 | 0  | 47 | 0  | 48 | 0  | 49 | 0  | 50 | 21 |          |  |
| 12       | 0 | 34                                  | 0  | 35 | 0  | 36 | 0  | 37 | 0  | 38 | 0  | 39 | 0  | 40 | 0  | 41 | 0  | 42 | 0  | 43 | 18 |          |  |
| 15       | 0 | 27                                  | 0  | 28 | 0  | 29 | 0  | 30 | 0  | 31 | 0  | 32 | 0  | 33 | 0  | 34 | 0  | 35 | 0  | 36 | 15 |          |  |
| 18       | 0 | 20                                  | 0  | 21 | 0  | 22 | 0  | 23 | 0  | 24 | 0  | 25 | 0  | 26 | 0  | 27 | 0  | 28 | 0  | 29 | 12 |          |  |
| 21       | 0 | 13                                  | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | 19 | 0  | 20 | 0  | 21 | 0  | 22 | 9  |          |  |
| 24       | 0 | 5                                   | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 6  |          |  |
| 27       | 0 | 2                                   | 0  | 3  | 0  | 4  | 0  | 5  | 0  | 6  | 0  | 7  | 0  | 8  | 0  | 9  | 0  | 10 | 0  | 11 | 3  |          |  |
| 12       | 0 | 9                                   | 0  | 10 | 0  | 11 | 0  | 12 | 0  | 13 | 0  | 14 | 0  | 15 | 0  | 16 | 0  | 17 | 0  | 18 | 0  | O        |  |
| coequata |   |                                     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | coequata |  |
|          |   | Adde                                |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |  |
|          |   | 3                                   | 9  | 3  | 8  | 3  | 7  | 3  | 6  | 3  | 5  | 3  | 4  | 3  | 3  | 3  | 2  | 3  | 1  | 3  | 0  |          |  |
|          |   | Distantia vera ☉ à ☼, vel ab eius ☿ |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |          |  |

| Arg. lat.        | O. Septentr.          |     |    |   |    |    |   |    |    |   |    |              | 6. Merid. |    |    |   |    |    |   |    |    |   |    |    | Arg. lat. |
|------------------|-----------------------|-----|----|---|----|----|---|----|----|---|----|--------------|-----------|----|----|---|----|----|---|----|----|---|----|----|-----------|
|                  | Latitudo Lunæ maxima. |     |    |   |    |    |   |    |    |   |    |              |           |    |    |   |    |    |   |    |    |   |    |    |           |
|                  | 4                     | 58. | ½  | 5 | 0  | 5  | 5 | 5  | 10 | 5 | 15 | 5            | 17        | 30 |    |   |    |    |   |    |    |   |    |    |           |
|                  | P                     | i   | '' | P | i  | '' | P | i  | '' | P | i  | ''           | P         | i  | '' | P | i  | '' | P | i  | '' | P | i  | '' |           |
| 0                | 0                     | 0   | 0  | 0 | 0  | 0  | 0 | 0  | 0  | 0 | 0  | 0            | 0         | 0  | 0  | 0 | 0  | 0  | 0 | 0  | 0  | 0 | 0  | 0  | 30        |
| 1                | 0                     | 5   | 13 | 0 | 5  | 14 | 0 | 5  | 19 | 0 | 5  | 24           | 0         | 5  | 29 | 0 | 5  | 33 | 0 | 5  | 33 | 0 | 5  | 33 | 29        |
| 2                | 0                     | 10  | 25 | 0 | 10 | 27 | 0 | 10 | 38 | 0 | 10 | 48           | 0         | 10 | 59 | 0 | 11 | 5  | 0 | 11 | 5  | 0 | 11 | 5  | 28        |
| 3                | 0                     | 15  | 36 | 0 | 15 | 41 | 0 | 15 | 57 | 0 | 16 | 12           | 0         | 16 | 28 | 0 | 16 | 35 | 0 | 16 | 35 | 0 | 16 | 35 | 27        |
| 4                | 0                     | 20  | 47 | 0 | 20 | 54 | 0 | 21 | 16 | 0 | 21 | 36           | 0         | 21 | 57 | 0 | 22 | 6  | 0 | 22 | 6  | 0 | 22 | 6  | 26        |
| 5                | 0                     | 25  | 58 | 0 | 26 | 7  | 0 | 26 | 33 | 0 | 26 | 59           | 0         | 27 | 25 | 0 | 27 | 37 | 0 | 27 | 37 | 0 | 27 | 37 | 25        |
| 6                | 0                     | 31  | 9  | 0 | 31 | 19 | 0 | 31 | 50 | 0 | 32 | 22           | 0         | 32 | 53 | 0 | 33 | 8  | 0 | 33 | 8  | 0 | 33 | 8  | 24        |
| 7                | 0                     | 36  | 19 | 0 | 36 | 31 | 0 | 37 | 8  | 0 | 37 | 44           | 0         | 38 | 21 | 0 | 38 | 55 | 0 | 38 | 55 | 0 | 38 | 55 | 23        |
| 8                | 0                     | 41  | 29 | 0 | 41 | 42 | 0 | 42 | 24 | 0 | 43 | 6            | 0         | 43 | 48 | 0 | 44 | 7  | 0 | 44 | 7  | 0 | 44 | 7  | 22        |
| 9                | 0                     | 46  | 38 | 0 | 46 | 52 | 0 | 47 | 39 | 0 | 48 | 26           | 0         | 49 | 13 | 0 | 49 | 35 | 0 | 49 | 35 | 0 | 49 | 35 | 21        |
| 10               | 0                     | 51  | 46 | 0 | 52 | 2  | 0 | 52 | 54 | 0 | 53 | 46           | 0         | 54 | 38 | 0 | 55 | 3  | 0 | 55 | 3  | 0 | 55 | 3  | 20        |
| 11               | 0                     | 56  | 53 | 0 | 57 | 10 | 0 | 58 | 7  | 0 | 59 | 4            | 1         | 0  | 1  | 1 | 0  | 29 | 1 | 0  | 29 | 1 | 0  | 29 | 19        |
| 12               | 1                     | 1   | 59 | 1 | 2  | 18 | 1 | 3  | 20 | 1 | 4  | 22           | 1         | 5  | 24 | 1 | 5  | 54 | 1 | 5  | 54 | 1 | 5  | 54 | 18        |
| 13               | 1                     | 7   | 4  | 1 | 7  | 24 | 1 | 8  | 31 | 1 | 9  | 38           | 1         | 10 | 45 | 1 | 11 | 19 | 1 | 11 | 19 | 1 | 11 | 19 | 17        |
| 14               | 1                     | 12  | 8  | 1 | 12 | 29 | 1 | 13 | 41 | 1 | 14 | 53           | 1         | 16 | 5  | 1 | 16 | 42 | 1 | 16 | 42 | 1 | 16 | 42 | 16        |
| 15               | 1                     | 17  | 10 | 1 | 17 | 33 | 1 | 18 | 50 | 1 | 20 | 7            | 1         | 21 | 24 | 1 | 22 | 3  | 1 | 22 | 3  | 1 | 22 | 3  | 15        |
| 16               | 1                     | 22  | 11 | 1 | 22 | 36 | 1 | 23 | 58 | 1 | 25 | 21           | 1         | 26 | 43 | 1 | 27 | 24 | 1 | 27 | 24 | 1 | 27 | 24 | 14        |
| 17               | 1                     | 27  | 10 | 1 | 27 | 37 | 1 | 29 | 4  | 1 | 30 | 32           | 1         | 32 | 0  | 1 | 32 | 42 | 1 | 32 | 42 | 1 | 32 | 42 | 13        |
| 18               | 1                     | 32  | 8  | 1 | 32 | 36 | 1 | 34 | 8  | 1 | 35 | 41           | 1         | 37 | 13 | 1 | 37 | 59 | 1 | 37 | 59 | 1 | 37 | 59 | 12        |
| 19               | 1                     | 37  | 4  | 1 | 37 | 34 | 1 | 39 | 11 | 1 | 40 | 48           | 1         | 42 | 26 | 1 | 43 | 14 | 1 | 43 | 14 | 1 | 43 | 14 | 11        |
| 20               | 1                     | 41  | 58 | 1 | 42 | 30 | 1 | 44 | 12 | 1 | 45 | 54           | 1         | 47 | 36 | 1 | 48 | 27 | 1 | 48 | 27 | 1 | 48 | 27 | 10        |
| 21               | 1                     | 46  | 51 | 1 | 47 | 23 | 1 | 49 | 10 | 1 | 50 | 57           | 1         | 52 | 44 | 1 | 53 | 38 | 1 | 53 | 38 | 1 | 53 | 38 | 9         |
| 22               | 1                     | 51  | 41 | 1 | 52 | 16 | 1 | 54 | 8  | 1 | 56 | 0            | 1         | 57 | 51 | 1 | 58 | 47 | 1 | 58 | 47 | 1 | 58 | 47 | 8         |
| 23               | 1                     | 56  | 30 | 1 | 57 | 6  | 1 | 59 | 3  | 2 | 0  | 59           | 2         | 2  | 56 | 2 | 3  | 54 | 2 | 3  | 54 | 2 | 3  | 54 | 7         |
| 24               | 2                     | 1   | 17 | 2 | 1  | 54 | 2 | 3  | 56 | 2 | 5  | 57           | 2         | 7  | 59 | 2 | 8  | 59 | 2 | 8  | 59 | 2 | 8  | 59 | 6         |
| 25               | 2                     | 6   | 1  | 2 | 6  | 39 | 2 | 8  | 45 | 2 | 10 | 51           | 2         | 12 | 58 | 2 | 14 | 1  | 2 | 14 | 1  | 2 | 14 | 1  | 5         |
| 26               | 2                     | 10  | 43 | 2 | 11 | 22 | 2 | 13 | 33 | 2 | 15 | 45           | 2         | 17 | 56 | 2 | 19 | 1  | 2 | 19 | 1  | 2 | 19 | 1  | 4         |
| 27               | 2                     | 15  | 23 | 2 | 16 | 4  | 2 | 18 | 20 | 2 | 20 | 35           | 2         | 22 | 51 | 2 | 23 | 58 | 2 | 23 | 58 | 2 | 23 | 58 | 3         |
| 28               | 2                     | 20  | 0  | 2 | 20 | 42 | 2 | 23 | 2  | 2 | 25 | 23           | 2         | 27 | 44 | 2 | 28 | 53 | 2 | 28 | 53 | 2 | 28 | 53 | 2         |
| 29               | 2                     | 24  | 34 | 2 | 25 | 18 | 2 | 27 | 43 | 2 | 30 | 8            | 2         | 32 | 33 | 2 | 33 | 45 | 2 | 33 | 45 | 2 | 33 | 45 | 1         |
| 30               | 2                     | 29  | 6  | 2 | 29 | 52 | 2 | 32 | 22 | 2 | 34 | 51           | 2         | 37 | 20 | 2 | 38 | 34 | 2 | 38 | 34 | 2 | 38 | 34 | 0         |
| II. Meridiana A. |                       |     |    |   |    |    |   |    |    |   |    | 5. Septentr. |           |    |    |   |    |    |   |    |    |   |    |    |           |



|    | Arg. lat. |
|----|-----------|
| 30 |           |
| "  | 0         |
| 33 | 30        |
| 5  | 29        |
| 35 | 28        |
| 6  | 27        |
| 37 | 26        |
| 8  | 25        |
| 55 | 24        |
| 7  | 23        |
| 35 | 22        |
| 3  | 21        |
| 29 | 20        |
| 54 | 19        |
| 19 | 18        |
| 42 | 17        |
| 3  | 16        |
| 24 | 15        |
| 42 | 14        |
| 59 | 13        |
| 14 | 12        |
| 27 | 11        |
| 38 | 10        |
| 47 | 9         |
| 54 | 8         |
| 59 | 7         |
| 1  | 6         |
| 1  | 5         |
| 58 | 4         |
| 53 | 3         |
| 45 | 2         |
| 34 | 1         |
|    | 0         |

| Arg. lat. |  | I. Septentr.          |    |               |   |    |    |   |    |    |   |    |    | 7. Merid.    |    |    |   |    |    |               |   |   |    |  |  | Arg. lat. |  |
|-----------|--|-----------------------|----|---------------|---|----|----|---|----|----|---|----|----|--------------|----|----|---|----|----|---------------|---|---|----|--|--|-----------|--|
|           |  | Latitude Lunæ maxima. |    |               |   |    |    |   |    |    |   |    |    |              |    |    |   |    |    |               |   |   |    |  |  |           |  |
|           |  | 4                     | 58 | $\frac{1}{2}$ | 5 |    | 0  | 5 |    | 5  | 5 |    | 10 | 5            |    | 15 | 5 |    | 17 | $\frac{1}{2}$ |   |   |    |  |  |           |  |
|           |  | P                     | i  | u             | P | i  | u  | P | i  | u  | P | i  | u  | P            | i  | u  | P | i  | u  | P             | i | u |    |  |  |           |  |
| 0         |  | 2                     | 29 | 6             | 2 | 29 | 52 | 2 | 32 | 22 | 2 | 34 | 51 | 2            | 37 | 20 | 2 | 38 | 34 |               |   |   | 30 |  |  |           |  |
| 1         |  | 2                     | 33 | 36            | 2 | 34 | 23 | 2 | 36 | 57 | 2 | 39 | 31 | 2            | 42 | 5  | 2 | 43 | 21 |               |   |   | 29 |  |  |           |  |
| 2         |  | 2                     | 38 | 3             | 2 | 38 | 50 | 2 | 41 | 19 | 2 | 44 | 7  | 2            | 46 | 46 | 2 | 48 | 5  |               |   |   | 28 |  |  |           |  |
| 3         |  | 2                     | 42 | 26            | 2 | 43 | 15 | 2 | 45 | 58 | 2 | 48 | 41 | 2            | 51 | 24 | 2 | 52 | 44 |               |   |   | 27 |  |  |           |  |
| 4         |  | 2                     | 46 | 46            | 2 | 47 | 37 | 2 | 50 | 25 | 2 | 53 | 12 | 2            | 56 | 0  | 2 | 57 | 21 |               |   |   | 26 |  |  |           |  |
| 5         |  | 2                     | 51 | 4             | 2 | 51 | 56 | 2 | 54 | 47 | 2 | 57 | 39 | 3            | 0  | 30 | 3 | 1  | 55 |               |   |   | 25 |  |  |           |  |
| 6         |  | 2                     | 55 | 19            | 2 | 56 | 12 | 2 | 59 | 8  | 3 | 2  | 4  | 3            | 5  | 0  | 3 | 6  | 26 |               |   |   | 24 |  |  |           |  |
| 7         |  | 2                     | 59 | 30            | 3 | 0  | 24 | 3 | 3  | 24 | 3 | 6  | 24 | 3            | 9  | 24 | 3 | 10 | 53 |               |   |   | 23 |  |  |           |  |
| 8         |  | 3                     | 3  | 38            | 3 | 4  | 33 | 3 | 7  | 37 | 3 | 10 | 41 | 3            | 13 | 45 | 3 | 15 | 17 |               |   |   | 22 |  |  |           |  |
| 9         |  | 3                     | 7  | 43            | 3 | 8  | 39 | 3 | 11 | 47 | 3 | 14 | 56 | 3            | 18 | 4  | 3 | 19 | 38 |               |   |   | 21 |  |  |           |  |
| 10        |  | 3                     | 11 | 44            | 3 | 12 | 42 | 3 | 15 | 54 | 3 | 19 | 7  | 3            | 22 | 20 | 3 | 23 | 55 |               |   |   | 20 |  |  |           |  |
| 11        |  | 3                     | 15 | 42            | 3 | 16 | 41 | 3 | 19 | 57 | 3 | 23 | 13 | 3            | 26 | 29 | 3 | 28 | 8  |               |   |   | 19 |  |  |           |  |
| 12        |  | 3                     | 19 | 36            | 3 | 20 | 36 | 3 | 23 | 56 | 3 | 27 | 16 | 3            | 30 | 36 | 3 | 32 | 17 |               |   |   | 18 |  |  |           |  |
| 13        |  | 3                     | 23 | 26            | 3 | 24 | 28 | 3 | 27 | 52 | 3 | 31 | 16 | 3            | 34 | 40 | 3 | 36 | 22 |               |   |   | 17 |  |  |           |  |
| 14        |  | 3                     | 27 | 13            | 3 | 28 | 16 | 3 | 31 | 44 | 3 | 35 | 12 | 3            | 38 | 40 | 3 | 40 | 23 |               |   |   | 16 |  |  |           |  |
| 15        |  | 3                     | 30 | 56            | 2 | 32 | 0  | 3 | 35 | 31 | 3 | 39 | 3  | 3            | 42 | 34 | 3 | 44 | 20 |               |   |   | 15 |  |  |           |  |
| 16        |  | 3                     | 34 | 35            | 3 | 35 | 40 | 3 | 39 | 16 | 3 | 42 | 51 | 3            | 46 | 27 | 3 | 48 | 13 |               |   |   | 14 |  |  |           |  |
| 17        |  | 3                     | 38 | 10            | 3 | 39 | 17 | 3 | 42 | 56 | 3 | 46 | 35 | 3            | 50 | 14 | 3 | 52 | 2  |               |   |   | 13 |  |  |           |  |
| 18        |  | 3                     | 41 | 42            | 3 | 42 | 49 | 3 | 46 | 32 | 3 | 50 | 14 | 3            | 53 | 56 | 3 | 55 | 47 |               |   |   | 12 |  |  |           |  |
| 19        |  | 3                     | 45 | 7             | 3 | 46 | 18 | 3 | 50 | 4  | 3 | 53 | 50 | 3            | 57 | 36 | 3 | 59 | 25 |               |   |   | 11 |  |  |           |  |
| 20        |  | 3                     | 48 | 30            | 3 | 49 | 43 | 3 | 53 | 33 | 3 | 57 | 22 | 4            | 1  | 12 | 4 | 3  | 1  |               |   |   | 10 |  |  |           |  |
| 21        |  | 3                     | 51 | 52            | 3 | 53 | 2  | 3 | 56 | 55 | 4 | 0  | 47 | 4            | 4  | 40 | 4 | 6  | 36 |               |   |   | 9  |  |  |           |  |
| 22        |  | 3                     | 55 | 9             | 3 | 56 | 18 | 4 | 0  | 14 | 4 | 4  | 10 | 4            | 8  | 6  | 4 | 10 | 6  |               |   |   | 8  |  |  |           |  |
| 23        |  | 3                     | 58 | 19            | 3 | 59 | 29 | 4 | 3  | 28 | 4 | 7  | 27 | 4            | 11 | 26 | 4 | 13 | 28 |               |   |   | 7  |  |  |           |  |
| 24        |  | 4                     | 1  | 23            | 4 | 2  | 36 | 4 | 6  | 38 | 4 | 10 | 40 | 4            | 14 | 42 | 4 | 16 | 44 |               |   |   | 6  |  |  |           |  |
| 25        |  | 4                     | 4  | 24            | 4 | 5  | 39 | 4 | 9  | 44 | 4 | 13 | 50 | 4            | 17 | 56 | 4 | 19 | 56 |               |   |   | 5  |  |  |           |  |
| 26        |  | 4                     | 7  | 21            | 4 | 8  | 37 | 4 | 12 | 45 | 4 | 16 | 53 | 4            | 21 | 1  | 4 | 23 | 4  |               |   |   | 4  |  |  |           |  |
| 27        |  | 4                     | 10 | 15            | 4 | 11 | 30 | 4 | 15 | 41 | 4 | 19 | 52 | 4            | 24 | 3  | 4 | 26 | 9  |               |   |   | 3  |  |  |           |  |
| 28        |  | 4                     | 13 | 5             | 4 | 14 | 19 | 4 | 18 | 33 | 4 | 22 | 47 | 4            | 27 | 14 | 4 | 29 | 10 |               |   |   | 2  |  |  |           |  |
| 29        |  | 4                     | 15 | 49            | 4 | 17 | 3  | 4 | 21 | 19 | 5 | 25 | 36 | 4            | 29 | 52 | 4 | 32 | 4  |               |   |   | 1  |  |  |           |  |
| 30        |  | 4                     | 18 | 26            | 4 | 19 | 43 | 4 | 24 | 3  | 4 | 28 | 22 | 4            | 32 | 42 | 4 | 34 | 51 |               |   |   | 0  |  |  |           |  |
|           |  | 10. Merid.            |    |               |   |    |    |   |    |    |   |    |    | 4. Septentr. |    |    |   |    |    |               |   |   |    |  |  |           |  |

## Tabula latitudinis Lune Tychonica.

| Arg. lat. | 2. Septentr.          |    |               |   |    |    |   |    |    |   |    |              | 8. Merid. |               |    |   |    |    |    |  |  |  |  |  | Arg. lat. |
|-----------|-----------------------|----|---------------|---|----|----|---|----|----|---|----|--------------|-----------|---------------|----|---|----|----|----|--|--|--|--|--|-----------|
|           | Latitudo Lunæ maxima. |    |               |   |    |    |   |    |    |   |    |              |           |               |    |   |    |    |    |  |  |  |  |  |           |
|           | 4                     | 58 | $\frac{1}{2}$ | 5 | 0  | 5  | 5 | 5  | 10 | 5 | 15 | 5            | 17        | $\frac{1}{2}$ |    |   |    |    |    |  |  |  |  |  |           |
|           | P                     | I  | "             | P | I  | "  | P | I  | "  | P | I  | "            | P         | I             | "  | P | I  | "  |    |  |  |  |  |  |           |
| 0         | 4                     | 18 | 26            | 4 | 19 | 43 | 4 | 24 | 3  | 4 | 28 | 22           | 4         | 32            | 42 | 4 | 34 | 51 | 30 |  |  |  |  |  |           |
| 1         | 4                     | 20 | 59            | 4 | 22 | 18 | 4 | 26 | 40 | 4 | 31 | 3            | 4         | 35            | 25 | 4 | 37 | 34 | 29 |  |  |  |  |  |           |
| 2         | 4                     | 23 | 28            | 4 | 24 | 49 | 4 | 29 | 14 | 4 | 33 | 38           | 4         | 38            | 3  | 4 | 40 | 13 | 28 |  |  |  |  |  |           |
| 3         | 4                     | 25 | 53            | 4 | 27 | 14 | 4 | 31 | 41 | 4 | 36 | 8            | 4         | 40            | 35 | 4 | 42 | 48 | 27 |  |  |  |  |  |           |
| 4         | 4                     | 28 | 13            | 4 | 29 | 34 | 4 | 34 | 3  | 4 | 38 | 33           | 4         | 43            | 3  | 4 | 45 | 17 | 26 |  |  |  |  |  |           |
| 5         | 4                     | 30 | 28            | 4 | 31 | 49 | 4 | 36 | 20 | 4 | 40 | 52           | 4         | 45            | 24 | 4 | 47 | 40 | 25 |  |  |  |  |  |           |
| 6         | 4                     | 32 | 38            | 4 | 34 | 0  | 4 | 38 | 34 | 4 | 43 | 8            | 4         | 47            | 42 | 4 | 49 | 58 | 24 |  |  |  |  |  |           |
| 7         | 4                     | 34 | 43            | 4 | 36 | 6  | 4 | 40 | 42 | 4 | 45 | 18           | 4         | 49            | 54 | 4 | 52 | 11 | 23 |  |  |  |  |  |           |
| 8         | 4                     | 36 | 43            | 4 | 38 | 6  | 4 | 42 | 44 | 4 | 47 | 22           | 4         | 52            | 0  | 4 | 54 | 19 | 22 |  |  |  |  |  |           |
| 9         | 4                     | 38 | 38            | 4 | 40 | 2  | 4 | 44 | 42 | 4 | 49 | 22           | 4         | 54            | 2  | 4 | 56 | 21 | 21 |  |  |  |  |  |           |
| 10        | 4                     | 40 | 27            | 4 | 41 | 52 | 4 | 46 | 33 | 4 | 51 | 15           | 4         | 55            | 57 | 4 | 58 | 18 | 20 |  |  |  |  |  |           |
| 11        | 4                     | 42 | 11            | 4 | 43 | 37 | 4 | 48 | 20 | 4 | 53 | 4            | 4         | 57            | 47 | 5 | 0  | 9  | 19 |  |  |  |  |  |           |
| 12        | 4                     | 43 | 50            | 4 | 45 | 17 | 4 | 50 | 2  | 4 | 54 | 47           | 4         | 59            | 32 | 5 | 1  | 55 | 18 |  |  |  |  |  |           |
| 13        | 4                     | 45 | 23            | 4 | 46 | 52 | 4 | 51 | 39 | 4 | 56 | 25           | 5         | 1             | 11 | 5 | 3  | 35 | 17 |  |  |  |  |  |           |
| 14        | 4                     | 46 | 52            | 4 | 48 | 21 | 4 | 53 | 10 | 4 | 57 | 58           | 5         | 2             | 47 | 5 | 5  | 10 | 16 |  |  |  |  |  |           |
| 15        | 4                     | 48 | 18            | 4 | 49 | 45 | 4 | 54 | 35 | 4 | 59 | 24           | 5         | 4             | 14 | 5 | 6  | 41 | 15 |  |  |  |  |  |           |
| 16        | 4                     | 49 | 35            | 4 | 51 | 4  | 4 | 55 | 55 | 5 | 0  | 46           | 5         | 5             | 37 | 5 | 8  | 2  | 14 |  |  |  |  |  |           |
| 17        | 4                     | 50 | 49            | 4 | 52 | 18 | 4 | 57 | 10 | 5 | 2  | 2            | 5         | 6             | 54 | 5 | 9  | 20 | 13 |  |  |  |  |  |           |
| 18        | 4                     | 51 | 58            | 4 | 53 | 25 | 4 | 58 | 18 | 5 | 3  | 12           | 5         | 8             | 6  | 5 | 10 | 32 | 12 |  |  |  |  |  |           |
| 19        | 4                     | 53 | 0             | 4 | 54 | 29 | 4 | 59 | 23 | 5 | 4  | 18           | 5         | 9             | 12 | 5 | 11 | 38 | 11 |  |  |  |  |  |           |
| 20        | 4                     | 53 | 57            | 4 | 55 | 26 | 5 | 0  | 21 | 5 | 5  | 17           | 5         | 10            | 12 | 5 | 12 | 39 | 10 |  |  |  |  |  |           |
| 21        | 4                     | 54 | 49            | 4 | 56 | 18 | 5 | 1  | 14 | 5 | 6  | 10           | 5         | 11            | 6  | 5 | 13 | 34 | 9  |  |  |  |  |  |           |
| 22        | 4                     | 55 | 36            | 4 | 57 | 4  | 5 | 2  | 1  | 5 | 6  | 58           | 5         | 11            | 55 | 5 | 14 | 24 | 8  |  |  |  |  |  |           |
| 23        | 4                     | 56 | 17            | 4 | 57 | 45 | 5 | 2  | 42 | 5 | 7  | 40           | 5         | 12            | 37 | 5 | 15 | 8  | 7  |  |  |  |  |  |           |
| 24        | 4                     | 56 | 52            | 4 | 58 | 21 | 5 | 3  | 20 | 5 | 8  | 18           | 5         | 13            | 17 | 5 | 15 | 45 | 6  |  |  |  |  |  |           |
| 25        | 4                     | 57 | 22            | 4 | 58 | 51 | 5 | 3  | 50 | 5 | 8  | 49           | 5         | 13            | 48 | 5 | 16 | 17 | 5  |  |  |  |  |  |           |
| 26        | 4                     | 57 | 46            | 4 | 59 | 16 | 5 | 4  | 15 | 5 | 9  | 14           | 5         | 14            | 13 | 5 | 16 | 42 | 4  |  |  |  |  |  |           |
| 27        | 4                     | 58 | 5             | 4 | 59 | 35 | 5 | 4  | 34 | 5 | 9  | 34           | 5         | 14            | 33 | 5 | 17 | 2  | 3  |  |  |  |  |  |           |
| 28        | 4                     | 58 | 18            | 4 | 59 | 49 | 5 | 4  | 49 | 5 | 9  | 49           | 5         | 14            | 49 | 5 | 17 | 16 | 2  |  |  |  |  |  |           |
| 29        | 4                     | 58 | 26            | 4 | 59 | 57 | 5 | 4  | 57 | 5 | 9  | 57           | 5         | 14            | 57 | 5 | 17 | 25 | 1  |  |  |  |  |  |           |
| 30        | 4                     | 58 | 30            | 5 | 0  | 0  | 5 | 5  | 0  | 5 | 10 | 0            | 5         | 15            | 0  | 5 | 17 | 30 | 0  |  |  |  |  |  |           |
| 9. Merid. |                       |    |               |   |    |    |   |    |    |   |    | 3. Septentr. |           |               |    |   |    |    |    |  |  |  |  |  |           |



| Arg. lat. |    |
|-----------|----|
| 11        | 30 |
| 51        | 29 |
| 34        | 28 |
| 13        | 27 |
| 48        | 26 |
| 17        | 25 |
| 40        | 24 |
| 58        | 23 |
| 11        | 22 |
| 19        | 21 |
| 21        | 20 |
| 18        | 19 |
| 9         | 18 |
| 55        | 17 |
| 35        | 16 |
| 10        | 15 |
| 41        | 14 |
| 2         | 13 |
| 20        | 12 |
| 32        | 11 |
| 38        | 10 |
| 39        | 9  |
| 34        | 8  |
| 24        | 7  |
| 8         | 6  |
| 45        | 5  |
| 17        | 4  |
| 42        | 3  |
| 2         | 2  |
| 16        | 1  |
| 25        | 0  |
| 30        | 0  |

T A B V L A E  
 AE Q V A B I L I V M,  
 S E V M E D I O R V M

Motuum & Aequationum Martis,

*Secundum Observationes ac Hypotheses Clariss. Virorum  
 Tychonis Brahe, & Io. Kepleri,*

Nunc primum noua hac forma

A IOAN. ANTONIO MAGINO  
 CONSTRVCTAE.





# Ac Tab. Secundorum Mobilium.

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Radices Aequalium motuum Martis ad hos annos:

| Anni   | Apogæum |    |    |    | Longitudo ab<br>Aequinoctio |    |    |    | Nodus Boreus,<br>feu $\Omega$ |    |    |    |
|--------|---------|----|----|----|-----------------------------|----|----|----|-------------------------------|----|----|----|
|        | S       | P  | i  | ii | S                           | P  | i  | ii | S                             | P  | i  | ii |
| B 1500 | 4       | 27 | 8  | 40 | 8                           | 5  | 2  | 32 | 1                             | 15 | 35 | 9  |
| 1501   | 4       | 27 | 9  | 47 | 2                           | 16 | 19 | 41 | 1                             | 15 | 35 | 50 |
| 1502   | 4       | 27 | 10 | 54 | 8                           | 27 | 36 | 50 | 1                             | 15 | 36 | 31 |
| 1503   | 4       | 27 | 12 | 1  | 3                           | 8  | 53 | 58 | 1                             | 15 | 37 | 3  |
| B 1504 | 4       | 27 | 13 | 8  | 9                           | 20 | 42 | 33 | 1                             | 15 | 37 | 54 |
| 1505   | 4       | 27 | 14 | 16 | 4                           | 1  | 59 | 42 | 1                             | 15 | 38 | 35 |
| 1506   | 4       | 27 | 15 | 23 | 10                          | 13 | 16 | 51 | 1                             | 15 | 39 | 16 |
| 1507   | 4       | 27 | 16 | 30 | 4                           | 24 | 33 | 59 | 1                             | 15 | 39 | 58 |
| B 1508 | 4       | 27 | 17 | 37 | 11                          | 6  | 22 | 34 | 1                             | 15 | 40 | 39 |
| 1509   | 4       | 27 | 18 | 44 | 5                           | 17 | 39 | 43 | 1                             | 15 | 41 | 20 |
| 1510   | 4       | 27 | 19 | 51 | 11                          | 28 | 56 | 51 | 1                             | 15 | 42 | 1  |
| 1511   | 4       | 27 | 20 | 58 | 6                           | 10 | 14 | 0  | 1                             | 15 | 42 | 43 |
| B 1512 | 4       | 27 | 22 | 5  | 0                           | 23 | 2  | 35 | 1                             | 15 | 43 | 24 |
| 1513   | 4       | 27 | 23 | 12 | 7                           | 3  | 19 | 44 | 1                             | 15 | 44 | 5  |
| 1514   | 4       | 27 | 24 | 19 | 1                           | 14 | 36 | 53 | 1                             | 15 | 44 | 47 |
| 1515   | 4       | 27 | 25 | 26 | 7                           | 25 | 54 | 1  | 1                             | 15 | 45 | 28 |
| B 1516 | 4       | 27 | 26 | 34 | 2                           | 7  | 42 | 36 | 1                             | 15 | 46 | 9  |
| 1517   | 4       | 27 | 27 | 41 | 8                           | 18 | 59 | 45 | 1                             | 15 | 46 | 50 |
| 1518   | 4       | 27 | 28 | 48 | 3                           | 0  | 16 | 54 | 1                             | 15 | 47 | 32 |
| 1519   | 4       | 27 | 29 | 55 | 9                           | 11 | 34 | 2  | 1                             | 15 | 48 | 13 |
| B 1520 | 4       | 27 | 31 | 2  | 3                           | 23 | 22 | 36 | 1                             | 15 | 48 | 54 |
| 1521   | 4       | 27 | 32 | 9  | 10                          | 4  | 39 | 45 | 1                             | 15 | 49 | 35 |
| 1522   | 4       | 27 | 33 | 16 | 4                           | 15 | 56 | 53 | 1                             | 15 | 50 | 17 |
| 1523   | 4       | 27 | 34 | 24 | 10                          | 27 | 14 | 2  | 1                             | 15 | 50 | 58 |
| B 1524 | 4       | 27 | 35 | 31 | 5                           | 9  | 2  | 37 | 1                             | 15 | 51 | 39 |
| 1525   | 4       | 27 | 36 | 38 | 11                          | 20 | 19 | 46 | 1                             | 15 | 52 | 21 |
| 1526   | 4       | 27 | 37 | 45 | 6                           | 1  | 36 | 54 | 1                             | 15 | 53 | 2  |
| 1527   | 4       | 27 | 38 | 52 | 0                           | 12 | 54 | 3  | 1                             | 15 | 53 | 43 |
| B 1528 | 4       | 27 | 39 | 59 | 6                           | 24 | 42 | 38 | 1                             | 15 | 54 | 24 |
| 1529   | 4       | 27 | 41 | 6  | 1                           | 5  | 59 | 47 | 1                             | 15 | 55 | 6  |
| 1530   | 4       | 27 | 42 | 13 | 7                           | 17 | 16 | 56 | 1                             | 15 | 55 | 47 |
| 1531   | 4       | 27 | 43 | 20 | 1                           | 28 | 34 | 4  | 1                             | 15 | 56 | 28 |
| B 1532 | 4       | 27 | 44 | 28 | 8                           | 10 | 22 | 39 | 1                             | 15 | 57 | 9  |
| 1533   | 4       | 27 | 45 | 35 | 2                           | 21 | 38 | 48 | 1                             | 15 | 57 | 51 |

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| Anni   | Apogäum ♂ |    |    |    | Longit. ♂ ab<br>Aequinoctio |    |    |    | Nodus Boreus,<br>feu ♄ |    |    |    |
|--------|-----------|----|----|----|-----------------------------|----|----|----|------------------------|----|----|----|
|        | S         | P  | i  | u  | S                           | P  | i  | u  | S                      | P  | i  | u  |
| 1534   | 4         | 27 | 46 | 42 | 9                           | 2  | 56 | 56 | I                      | 15 | 58 | 32 |
| 1535   | 4         | 27 | 47 | 49 | 3                           | 14 | 13 | 5  | I                      | 15 | 59 | 13 |
| B 1536 | 4         | 27 | 48 | 56 | 9                           | 26 | 2  | 40 | I                      | 15 | 59 | 55 |
| 1537   | 4         | 27 | 50 | 3  | 4                           | 7  | 19 | 48 | I                      | 16 | 0  | 36 |
| 1538   | 4         | 27 | 51 | 10 | 10                          | 18 | 36 | 57 | I                      | 16 | 1  | 17 |
| 1539   | 4         | 27 | 52 | 17 | 4                           | 29 | 53 | 5  | I                      | 16 | 1  | 58 |
| B 1540 | 4         | 27 | 53 | 24 | 11                          | 11 | 42 | 39 | I                      | 16 | 2  | 40 |
| 1541   | 4         | 27 | 54 | 32 | 5                           | 22 | 59 | 48 | I                      | 16 | 3  | 21 |
| 1542   | 4         | 27 | 55 | 39 | 0                           | 4  | 16 | 56 | I                      | 16 | 4  | 2  |
| 1543   | 4         | 27 | 56 | 46 | 6                           | 15 | 34 | 5  | I                      | 16 | 4  | 43 |
| B 1544 | 4         | 27 | 57 | 53 | 0                           | 27 | 22 | 40 | I                      | 16 | 5  | 25 |
| 1545   | 4         | 27 | 59 | 0  | 7                           | 8  | 39 | 48 | I                      | 16 | 6  | 6  |
| 1546   | 4         | 28 | 0  | 7  | 1                           | 19 | 56 | 57 | I                      | 16 | 6  | 47 |
| 1547   | 4         | 28 | 1  | 14 | 7                           | 1  | 14 | 6  | I                      | 16 | 7  | 29 |
| B 1548 | 4         | 28 | 2  | 22 | 2                           | 13 | 2  | 41 | I                      | 16 | 8  | 10 |
| 1549   | 4         | 28 | 3  | 29 | 8                           | 24 | 19 | 50 | I                      | 16 | 8  | 51 |
| 1550   | 4         | 28 | 4  | 36 | 3                           | 5  | 36 | 58 | I                      | 16 | 9  | 32 |
| 1551   | 4         | 28 | 5  | 43 | 9                           | 16 | 54 | 7  | I                      | 16 | 10 | 14 |
| B 1552 | 4         | 28 | 6  | 50 | 3                           | 28 | 42 | 42 | I                      | 16 | 10 | 55 |
| 1553   | 4         | 28 | 7  | 57 | 10                          | 9  | 59 | 50 | I                      | 16 | 11 | 36 |
| 1554   | 4         | 28 | 9  | 4  | 4                           | 21 | 16 | 59 | I                      | 16 | 12 | 17 |
| 1555   | 4         | 28 | 10 | 11 | 11                          | 2  | 34 | 8  | I                      | 16 | 12 | 59 |
| B 1556 | 4         | 28 | 11 | 18 | 5                           | 14 | 22 | 43 | I                      | 16 | 13 | 40 |
| 1557   | 4         | 28 | 12 | 25 | 11                          | 25 | 39 | 51 | I                      | 16 | 14 | 21 |
| 1558   | 4         | 28 | 13 | 32 | 6                           | 6  | 57 | 0  | I                      | 16 | 15 | 2  |
| 1559   | 4         | 28 | 14 | 39 | 0                           | 18 | 14 | 8  | I                      | 16 | 15 | 44 |
| B 1560 | 4         | 28 | 15 | 46 | 7                           | 0  | 2  | 42 | I                      | 16 | 16 | 25 |
| 1561   | 4         | 28 | 16 | 54 | 1                           | 11 | 19 | 51 | I                      | 16 | 17 | 6  |
| 1562   | 4         | 28 | 18 | 1  | 7                           | 22 | 37 | 0  | I                      | 16 | 17 | 47 |
| 1563   | 4         | 28 | 19 | 8  | 2                           | 3  | 54 | 8  | I                      | 16 | 18 | 29 |
| B 1564 | 4         | 28 | 20 | 15 | 8                           | 15 | 42 | 43 | I                      | 16 | 19 | 10 |
| 1565   | 4         | 28 | 21 | 22 | 2                           | 26 | 59 | 52 | I                      | 16 | 19 | 51 |
| 1566   | 4         | 28 | 22 | 29 | 9                           | 8  | 17 | 0  | I                      | 16 | 20 | 32 |
| 1567   | 4         | 28 | 23 | 36 | 3                           | 19 | 34 | 9  | I                      | 16 | 21 | 14 |



Ad hos annos completos.

us Boreus,  
feu  $\Omega$ 

| P  | i  | '' |
|----|----|----|
| 15 | 58 | 32 |
| 15 | 59 | 13 |
| 15 | 59 | 55 |
| 16 | 0  | 36 |
| 16 | 1  | 17 |
| 16 | 1  | 58 |
| 16 | 2  | 40 |
| 16 | 3  | 21 |
| 16 | 4  | 2  |
| 16 | 4  | 43 |
| 16 | 5  | 25 |
| 16 | 6  | 6  |
| 16 | 6  | 47 |
| 16 | 7  | 29 |
| 16 | 8  | 10 |
| 16 | 8  | 51 |
| 16 | 9  | 32 |
| 16 | 10 | 14 |
| 16 | 10 | 55 |
| 16 | 11 | 36 |
| 16 | 12 | 17 |
| 16 | 12 | 59 |
| 16 | 13 | 40 |
| 16 | 14 | 21 |
| 16 | 15 | 2  |
| 16 | 15 | 44 |
| 16 | 16 | 25 |
| 16 | 17 | 6  |
| 16 | 17 | 47 |
| 16 | 18 | 29 |
| 16 | 19 | 10 |
| 16 | 19 | 51 |
| 16 | 20 | 32 |
| 16 | 21 | 14 |

| Anni   | Apogæum $\sigma$ |    |    |    | Longitudo ab<br>Aequinoctio |    |    |    | Nodus Boreus,<br>feu $\Omega$ |    |    |    |
|--------|------------------|----|----|----|-----------------------------|----|----|----|-------------------------------|----|----|----|
|        | S                | P  | i  | '' | S                           | P  | i  | '' | S                             | P  | i  | '' |
| B 1568 | 4                | 28 | 24 | 43 | 10                          | 1  | 22 | 44 | 1                             | 16 | 21 | 55 |
| 1569   | 4                | 28 | 25 | 50 | 4                           | 12 | 39 | 52 | 1                             | 16 | 22 | 36 |
| 1570   | 4                | 28 | 26 | 58 | 10                          | 23 | 57 | 1  | 1                             | 16 | 23 | 18 |
| 1571   | 4                | 28 | 28 | 5  | 5                           | 5  | 14 | 9  | 1                             | 16 | 23 | 59 |
| B 1572 | 4                | 28 | 29 | 12 | 11                          | 17 | 2  | 44 | 1                             | 16 | 24 | 40 |
| 1573   | 4                | 28 | 30 | 19 | 5                           | 28 | 19 | 52 | 1                             | 16 | 25 | 22 |
| 1574   | 4                | 28 | 31 | 26 | 0                           | 9  | 37 | 1  | 1                             | 16 | 26 | 3  |
| 1575   | 4                | 28 | 32 | 33 | 6                           | 20 | 54 | 10 | 1                             | 16 | 26 | 44 |
| B 1576 | 4                | 28 | 33 | 40 | 1                           | 2  | 42 | 45 | 1                             | 16 | 27 | 25 |
| 1577   | 4                | 28 | 34 | 48 | 7                           | 13 | 59 | 54 | 1                             | 16 | 28 | 7  |
| 1578   | 4                | 28 | 35 | 55 | 1                           | 25 | 17 | 2  | 1                             | 16 | 28 | 48 |
| 1579   | 4                | 28 | 37 | 2  | 8                           | 6  | 34 | 11 | 1                             | 16 | 29 | 29 |
| B 1580 | 4                | 28 | 38 | 9  | 2                           | 18 | 22 | 46 | 1                             | 16 | 30 | 11 |
| 1581   | 4                | 28 | 39 | 16 | 8                           | 29 | 39 | 55 | 1                             | 16 | 30 | 52 |
| 1582   | 4                | 28 | 40 | 23 | 3                           | 10 | 57 | 3  | 1                             | 16 | 31 | 33 |

Radices in Annis Gregorianis.

|        |   |    |    |    |    |    |    |    |   |    |    |    |
|--------|---|----|----|----|----|----|----|----|---|----|----|----|
| 1583   | 4 | 28 | 41 | 28 | 9  | 16 | 59 | 45 | 1 | 16 | 32 | 15 |
| B 1584 | 4 | 28 | 42 | 35 | 3  | 28 | 48 | 20 | 1 | 16 | 32 | 56 |
| 1585   | 4 | 28 | 43 | 42 | 10 | 10 | 5  | 29 | 1 | 16 | 33 | 37 |
| 1586   | 4 | 28 | 44 | 49 | 4  | 21 | 22 | 37 | 1 | 16 | 34 | 19 |
| 1587   | 4 | 28 | 45 | 56 | 11 | 2  | 39 | 46 | 1 | 16 | 35 | 0  |
| B 1588 | 4 | 28 | 47 | 4  | 5  | 14 | 28 | 20 | 1 | 16 | 35 | 41 |
| 1589   | 4 | 28 | 48 | 11 | 11 | 25 | 45 | 29 | 1 | 16 | 36 | 23 |
| 1590   | 4 | 28 | 49 | 18 | 6  | 7  | 2  | 38 | 1 | 16 | 37 | 4  |
| 1591   | 4 | 28 | 50 | 25 | 0  | 18 | 19 | 46 | 1 | 16 | 37 | 45 |
| B 1592 | 4 | 28 | 51 | 32 | 7  | 0  | 8  | 21 | 1 | 16 | 38 | 26 |
| 1593   | 4 | 28 | 52 | 39 | 1  | 11 | 25 | 30 | 1 | 16 | 39 | 8  |
| 1594   | 4 | 28 | 53 | 46 | 7  | 22 | 42 | 38 | 1 | 16 | 40 | 49 |
| 1595   | 4 | 28 | 54 | 53 | 2  | 3  | 55 | 47 | 1 | 16 | 40 | 30 |
| B 1596 | 4 | 28 | 56 | 1  | 8  | 15 | 48 | 22 | 1 | 16 | 41 | 12 |
| 1597   | 4 | 28 | 57 | 8  | 2  | 27 | 5  | 31 | 1 | 16 | 41 | 53 |
| 1598   | 4 | 28 | 58 | 15 | 9  | 8  | 22 | 39 | 1 | 16 | 42 | 34 |
| 1599   | 4 | 28 | 59 | 22 | 3  | 19 | 39 | 48 | 1 | 16 | 43 | 15 |

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| Anni   | Apogäum ♂ |    |    |    | Longitudo ab<br>Aequinoctio |    |    |    | Nodus Boreus,<br>ſeu ♄ |    |    |    |
|--------|-----------|----|----|----|-----------------------------|----|----|----|------------------------|----|----|----|
|        | S         | P  | i  | u  | S                           | P  | i  | u  | S                      | P  | i  | u  |
| B 1600 | 4         | 29 | 0  | 29 | 10                          | 1  | 28 | 22 | 1                      | 16 | 43 | 56 |
| 1601   | 4         | 29 | 1  | 36 | 4                           | 12 | 45 | 30 | 1                      | 16 | 44 | 28 |
| 1602   | 4         | 29 | 2  | 43 | 10                          | 24 | 2  | 39 | 1                      | 16 | 45 | 19 |
| 1603   | 4         | 29 | 3  | 51 | 5                           | 5  | 19 | 48 | 1                      | 16 | 46 | 0  |
| B 1604 | 4         | 29 | 4  | 58 | 11                          | 17 | 8  | 23 | 1                      | 16 | 46 | 41 |
| 1605   | 4         | 29 | 6  | 5  | 5                           | 28 | 25 | 32 | 1                      | 16 | 47 | 23 |
| 1606   | 4         | 29 | 7  | 12 | 0                           | 9  | 42 | 40 | 1                      | 16 | 48 | 4  |
| 1607   | 4         | 29 | 8  | 19 | 6                           | 20 | 59 | 49 | 1                      | 16 | 48 | 45 |
| B 1608 | 4         | 29 | 9  | 26 | 1                           | 2  | 48 | 24 | 1                      | 16 | 49 | 27 |
| 1609   | 4         | 29 | 10 | 33 | 7                           | 14 | 5  | 23 | 1                      | 16 | 50 | 8  |
| 1610   | 4         | 29 | 11 | 40 | 1                           | 25 | 22 | 41 | 1                      | 16 | 50 | 49 |
| 1611   | 4         | 29 | 12 | 48 | 8                           | 6  | 39 | 50 | 1                      | 16 | 51 | 30 |
| B 1612 | 4         | 29 | 13 | 56 | 2                           | 18 | 28 | 24 | 1                      | 16 | 52 | 12 |
| 1613   | 4         | 29 | 15 | 3  | 8                           | 29 | 45 | 33 | 1                      | 16 | 52 | 53 |
| 1614   | 4         | 29 | 16 | 10 | 3                           | 11 | 2  | 41 | 1                      | 16 | 53 | 34 |
| 1615   | 4         | 29 | 17 | 17 | 9                           | 22 | 19 | 50 | 1                      | 16 | 54 | 15 |
| B 1616 | 4         | 29 | 18 | 24 | 4                           | 4  | 8  | 25 | 1                      | 16 | 54 | 57 |
| 1617   | 4         | 29 | 19 | 31 | 10                          | 15 | 25 | 33 | 1                      | 16 | 55 | 38 |
| 1618   | 4         | 29 | 20 | 38 | 4                           | 26 | 42 | 42 | 1                      | 16 | 56 | 19 |
| 1619   | 4         | 29 | 21 | 45 | 11                          | 7  | 59 | 51 | 1                      | 16 | 57 | 0  |
| B 1620 | 4         | 29 | 22 | 52 | 5                           | 19 | 48 | 26 | 1                      | 16 | 57 | 42 |
| 1621   | 4         | 29 | 23 | 59 | 0                           | 1  | 5  | 34 | 1                      | 16 | 58 | 23 |
| 1622   | 4         | 29 | 25 | 7  | 6                           | 12 | 22 | 43 | 1                      | 16 | 59 | 4  |
| 1623   | 4         | 29 | 26 | 14 | 0                           | 23 | 39 | 52 | 1                      | 16 | 59 | 46 |
| B 1624 | 4         | 29 | 27 | 21 | 7                           | 5  | 28 | 27 | 1                      | 16 | 0  | 27 |
| 1625   | 4         | 29 | 28 | 28 | 1                           | 16 | 45 | 35 | 1                      | 17 | 1  | 8  |
| 1626   | 4         | 29 | 29 | 35 | 7                           | 28 | 2  | 44 | 1                      | 17 | 1  | 50 |
| 1627   | 4         | 29 | 30 | 42 | 2                           | 9  | 19 | 53 | 1                      | 17 | 2  | 31 |
| B 1628 | 4         | 29 | 31 | 49 | 8                           | 21 | 8  | 28 | 1                      | 17 | 3  | 12 |
| 1629   | 4         | 29 | 32 | 56 | 3                           | 2  | 25 | 36 | 1                      | 17 | 3  | 54 |
| 1630   | 4         | 29 | 34 | 3  | 9                           | 13 | 42 | 45 | 1                      | 17 | 4  | 35 |
| 1631   | 4         | 29 | 35 | 10 | 3                           | 24 | 59 | 54 | 1                      | 17 | 5  | 16 |
| B 1632 | 4         | 29 | 36 | 18 | 10                          | 6  | 48 | 29 | 1                      | 17 | 5  | 58 |
| 1633   | 4         | 29 | 37 | 25 | 4                           | 18 | 5  | 38 | 1                      | 17 | 6  | 39 |



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Ad hos annos completos.

| us Boreus,<br>feu Ω |    |    |  |
|---------------------|----|----|--|
| P                   | i  | "  |  |
| 16                  | 43 | 56 |  |
| 16                  | 44 | 28 |  |
| 16                  | 45 | 19 |  |
| 16                  | 46 | 0  |  |
| 16                  | 46 | 41 |  |
| 16                  | 47 | 23 |  |
| 16                  | 48 | 4  |  |
| 16                  | 48 | 45 |  |
| 6                   | 49 | 27 |  |
| 6                   | 50 | 8  |  |
| 6                   | 50 | 49 |  |
| 6                   | 51 | 30 |  |
| 6                   | 52 | 12 |  |
| 6                   | 52 | 53 |  |
| 6                   | 53 | 34 |  |
| 6                   | 54 | 15 |  |
| 6                   | 54 | 57 |  |
| 6                   | 55 | 38 |  |
| 6                   | 56 | 19 |  |
| 6                   | 57 | 0  |  |
| 6                   | 57 | 42 |  |
| 6                   | 58 | 23 |  |
| 6                   | 59 | 4  |  |
| 6                   | 59 | 46 |  |
| 6                   | 0  | 27 |  |
| 7                   | 1  | 8  |  |
| 7                   | 2  | 31 |  |
| 7                   | 3  | 12 |  |
| 7                   | 3  | 54 |  |
| 7                   | 4  | 35 |  |
| 7                   | 5  | 16 |  |
| 7                   | 5  | 58 |  |
| 7                   | 6  | 39 |  |

| Anni   | Apogæum ♂ |    |    |    | Longitudo ab<br>Aequinoctio |    |    |    | Nodus Boreus,<br>feu Ω |    |    |     |
|--------|-----------|----|----|----|-----------------------------|----|----|----|------------------------|----|----|-----|
|        | S         | P  | i  | "  | S                           | P  | i  | "  | S                      | P  | i  | "   |
| 1633   | 4         | 29 | 37 | 25 | 4                           | 18 | 5  | 38 | I                      | 17 | 6  | 39  |
| 1634   | 4         | 29 | 38 | 32 | 10                          | 29 | 22 | 46 | I                      | 17 | 7  | 20  |
| 1635   | 4         | 29 | 39 | 39 | 5                           | 10 | 39 | 55 | I                      | 17 | 8  | 2   |
| B 1636 | 4         | 29 | 40 | 46 | 11                          | 22 | 28 | 29 | I                      | 17 | 8  | 143 |
| 1637   | 4         | 29 | 41 | 54 | 6                           | 3  | 45 | 38 | I                      | 17 | 9  | 124 |
| 1638   | 4         | 29 | 42 | 1  | 0                           | 15 | 2  | 47 | I                      | 17 | 10 | 5   |
| 1639   | 4         | 29 | 44 | 8  | 6                           | 26 | 19 | 55 | I                      | 17 | 10 | 46  |
| B 1640 | 4         | 29 | 45 | 15 | 1                           | 8  | 8  | 30 | I                      | 17 | 11 | 27  |
| 1641   | 4         | 29 | 46 | 22 | 7                           | 19 | 25 | 39 | I                      | 17 | 12 | 9   |
| 1642   | 4         | 29 | 47 | 29 | 2                           | 0  | 42 | 47 | I                      | 17 | 12 | 50  |
| 1643   | 4         | 29 | 48 | 36 | 8                           | 11 | 59 | 56 | I                      | 17 | 13 | 31  |
| B 1644 | 4         | 29 | 49 | 44 | 12                          | 23 | 48 | 30 | I                      | 17 | 14 | 12  |
| 1645   | 4         | 29 | 50 | 51 | 9                           | 5  | 5  | 39 | I                      | 17 | 14 | 54  |
| 1646   | 4         | 29 | 51 | 58 | 3                           | 16 | 22 | 47 | I                      | 17 | 15 | 35  |
| 1647   | 4         | 29 | 53 | 5  | 9                           | 27 | 39 | 56 | I                      | 17 | 16 | 16  |
| B 1648 | 4         | 29 | 54 | 12 | 4                           | 9  | 28 | 31 | I                      | 17 | 16 | 57  |
| 1649   | 4         | 29 | 55 | 19 | 10                          | 20 | 45 | 40 | I                      | 17 | 17 | 39  |
| 1650   | 4         | 29 | 56 | 26 | 5                           | 2  | 2  | 48 | I                      | 17 | 18 | 20  |
| 1651   | 4         | 29 | 57 | 34 | 11                          | 13 | 19 | 57 | I                      | 17 | 19 | 1   |
| B 1652 | 4         | 29 | 58 | 41 | 5                           | 25 | 8  | 32 | I                      | 17 | 19 | 42  |
| 1653   | 4         | 29 | 59 | 48 | 0                           | 6  | 25 | 41 | I                      | 17 | 20 | 24  |
| 1654   | 5         | 0  | 0  | 55 | 6                           | 17 | 42 | 49 | I                      | 17 | 21 | 5   |
| 1655   | 5         | 0  | 2  | 2  | 0                           | 28 | 59 | 58 | I                      | 17 | 21 | 46  |
| B 1656 | 5         | 0  | 3  | 9  | 7                           | 10 | 48 | 33 | I                      | 17 | 22 | 27  |
| 1657   | 5         | 0  | 4  | 16 | 1                           | 22 | 5  | 41 | I                      | 17 | 23 | 9   |
| 1658   | 5         | 0  | 5  | 23 | 8                           | 3  | 22 | 50 | I                      | 17 | 23 | 50  |
| 1659   | 5         | 0  | 6  | 30 | 2                           | 14 | 39 | 58 | I                      | 17 | 24 | 31  |
| B 1660 | 5         | 0  | 7  | 38 | 8                           | 26 | 28 | 33 | I                      | 17 | 25 | 13  |
| 1661   | 5         | 0  | 8  | 45 | 3                           | 7  | 45 | 42 | I                      | 17 | 25 | 54  |
| 1662   | 5         | 0  | 9  | 52 | 9                           | 19 | 2  | 50 | I                      | 17 | 26 | 35  |
| 1663   | 5         | 0  | 10 | 59 | 4                           | 0  | 19 | 59 | I                      | 17 | 27 | 16  |
| B 1664 | 5         | 0  | 12 | 6  | 10                          | 12 | 8  | 34 | I                      | 17 | 27 | 58  |
| 1665   | 5         | 0  | 13 | 13 | 4                           | 23 | 25 | 45 | I                      | 17 | 28 | 39  |
| 1666   | 5         | 0  | 14 | 20 | 11                          | 4  | 42 | 51 | I                      | 17 | 29 | 20  |

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| Anni   | Apogzum |   |    |    | Longitudo ab<br>Aequinoctio |    |    |    | Nodus Boreus,<br>feu $\Omega$ |    |    |    |
|--------|---------|---|----|----|-----------------------------|----|----|----|-------------------------------|----|----|----|
|        | S       | P | i  | u  | S                           | P  | i  | u  | S                             | P  | i  | u  |
| 1667   | 5       | 0 | 15 | 27 | 5                           | 0  | 0  | 0  | I                             | 17 | 30 | 2  |
| B 1668 | 5       | 0 | 16 | 34 | 11                          | 27 | 48 | 35 | I                             | 17 | 30 | 43 |
| 1669   | 5       | 0 | 17 | 42 | 6                           | 9  | 5  | 43 | I                             | 17 | 31 | 24 |
| 1670   | 5       | 0 | 18 | 49 | 0                           | 20 | 22 | 52 | I                             | 17 | 32 | 5  |
| 1671   | 5       | 0 | 19 | 56 | 7                           | 1  | 40 | 0  | I                             | 17 | 32 | 47 |
| B 1672 | 5       | 0 | 21 | 3  | 11                          | 13 | 28 | 35 | I                             | 17 | 33 | 28 |
| 1673   | 5       | 0 | 22 | 10 | 7                           | 24 | 45 | 44 | I                             | 17 | 34 | 9  |
| 1674   | 5       | 0 | 23 | 17 | 2                           | 6  | 2  | 52 | I                             | 17 | 34 | 50 |
| 1675   | 5       | 0 | 24 | 24 | 8                           | 17 | 20 | 1  | I                             | 17 | 35 | 32 |
| B 1676 | 5       | 0 | 25 | 32 | 2                           | 29 | 8  | 36 | I                             | 17 | 36 | 13 |
| 1677   | 5       | 0 | 26 | 39 | 9                           | 10 | 25 | 44 | I                             | 17 | 36 | 54 |
| 1678   | 5       | 0 | 27 | 46 | 3                           | 21 | 42 | 53 | I                             | 17 | 37 | 35 |
| 1679   | 5       | 0 | 28 | 53 | 10                          | 3  | 0  | 2  | I                             | 17 | 38 | 17 |
| B 1680 | 5       | 0 | 30 | 0  | 4                           | 14 | 48 | 37 | I                             | 17 | 38 | 58 |
| 1681   | 5       | 0 | 31 | 7  | 10                          | 26 | 5  | 45 | I                             | 17 | 39 | 39 |
| 1682   | 5       | 0 | 32 | 14 | 5                           | 7  | 22 | 54 | I                             | 17 | 40 | 20 |
| 1683   | 5       | 0 | 33 | 22 | 11                          | 18 | 40 | 2  | I                             | 17 | 41 | 2  |
| B 1684 | 5       | 0 | 34 | 29 | 6                           | 0  | 28 | 37 | I                             | 17 | 41 | 43 |
| 1685   | 5       | 0 | 35 | 36 | 0                           | 11 | 45 | 46 | I                             | 17 | 42 | 24 |
| 1686   | 5       | 0 | 36 | 43 | 6                           | 23 | 2  | 54 | I                             | 17 | 43 | 5  |
| 1687   | 5       | 0 | 37 | 50 | 1                           | 4  | 20 | 3  | I                             | 17 | 43 | 47 |
| B 1688 | 5       | 0 | 38 | 57 | 7                           | 16 | 8  | 38 | I                             | 17 | 44 | 28 |
| 1689   | 5       | 0 | 40 | 4  | 1                           | 27 | 25 | 46 | I                             | 17 | 45 | 9  |
| 1690   | 5       | 0 | 41 | 11 | 8                           | 8  | 42 | 55 | I                             | 17 | 45 | 50 |
| 1691   | 5       | 0 | 42 | 19 | 2                           | 20 | 0  | 4  | I                             | 17 | 46 | 32 |
| B 1692 | 5       | 0 | 43 | 26 | 9                           | 1  | 48 | 39 | I                             | 17 | 47 | 13 |
| 1693   | 5       | 0 | 44 | 33 | 3                           | 13 | 5  | 47 | I                             | 17 | 47 | 54 |
| 1694   | 5       | 0 | 45 | 40 | 9                           | 24 | 22 | 56 | I                             | 17 | 48 | 35 |
| 1695   | 5       | 0 | 46 | 47 | 4                           | 5  | 40 | 4  | I                             | 17 | 49 | 17 |
| B 1696 | 5       | 0 | 47 | 54 | 10                          | 17 | 28 | 39 | I                             | 17 | 49 | 58 |
| 1697   | 5       | 0 | 49 | 1  | 4                           | 28 | 45 | 48 | I                             | 17 | 50 | 39 |
| 1698   | 5       | 0 | 50 | 8  | 11                          | 10 | 2  | 56 | I                             | 17 | 51 | 21 |
| 1699   | 5       | 0 | 51 | 15 | 5                           | 21 | 20 | 5  | I                             | 17 | 52 | 2  |
| B 1700 | 5       | 0 | 52 | 22 | 0                           | 2  | 37 | 16 | I                             | 17 | 52 | 43 |



| us Boreus,<br>cu ☿ |    |    |
|--------------------|----|----|
| P                  | i  | "  |
| 17                 | 30 | 2  |
| 17                 | 30 | 43 |
| 17                 | 31 | 24 |
| 17                 | 32 | 5  |
| 17                 | 32 | 47 |
| 17                 | 33 | 28 |
| 17                 | 34 | 9  |
| 17                 | 34 | 50 |
| 17                 | 35 | 32 |
| 17                 | 36 | 13 |
| 17                 | 36 | 54 |
| 17                 | 37 | 35 |
| 17                 | 38 | 17 |
| 17                 | 38 | 58 |
| 17                 | 39 | 39 |
| 17                 | 40 | 20 |
| 17                 | 41 | 2  |
| 17                 | 41 | 43 |
| 17                 | 42 | 24 |
| 17                 | 43 | 5  |
| 17                 | 43 | 47 |
| 17                 | 44 | 28 |
| 17                 | 45 | 9  |
| 17                 | 45 | 50 |
| 17                 | 46 | 32 |
| 17                 | 47 | 13 |
| 17                 | 47 | 54 |
| 17                 | 48 | 35 |
| 17                 | 49 | 17 |
| 17                 | 49 | 58 |
| 17                 | 50 | 39 |
| 17                 | 51 | 21 |
| 17                 | 51 | 2  |
| 17                 | 52 | 43 |

| Bifexilis | Communis | IANVARIVS                 |    |    |    |      |   | FEBRVARIVS                |    |    |    |      |   |
|-----------|----------|---------------------------|----|----|----|------|---|---------------------------|----|----|----|------|---|
|           |          | Longitudo ☿<br>ab Aequin. |    |    |    | Apo. | ☿ | Longitudo ☿<br>ab Aequin. |    |    |    | Apo. | ☿ |
|           |          | Dies.                     | S  | P  | i  | "    |   | S                         | P  | i  | "  |      |   |
| 1         | 1        | 0                         | 0  | 31 | 27 | 0    | 0 | 0                         | 16 | 46 | 13 | 6    | 3 |
| 2         | 2        | 0                         | 1  | 2  | 53 | 0    | 0 | 0                         | 17 | 17 | 40 | 6    | 4 |
| 3         | 3        | 0                         | 1  | 34 | 20 | 1    | 0 | 0                         | 17 | 49 | 6  | 6    | 4 |
| 4         | 4        | 0                         | 2  | 5  | 47 | 1    | 0 | 0                         | 18 | 20 | 33 | 6    | 4 |
| 5         | 5        | 0                         | 2  | 37 | 13 | 1    | 1 | 0                         | 18 | 52 | 0  | 7    | 4 |
| 6         | 6        | 0                         | 3  | 8  | 40 | 1    | 1 | 0                         | 19 | 23 | 26 | 7    | 4 |
| 7         | 7        | 0                         | 3  | 40 | 7  | 1    | 1 | 0                         | 19 | 54 | 53 | 7    | 4 |
| 8         | 8        | 0                         | 4  | 11 | 33 | 1    | 1 | 0                         | 20 | 26 | 20 | 7    | 4 |
| 9         | 9        | 0                         | 4  | 42 | 0  | 2    | 1 | 0                         | 20 | 57 | 46 | 7    | 4 |
| 10        | 10       | 0                         | 5  | 14 | 27 | 2    | 1 | 0                         | 21 | 29 | 13 | 8    | 5 |
| 11        | 11       | 0                         | 5  | 45 | 53 | 2    | 1 | 0                         | 22 | 0  | 40 | 8    | 5 |
| 12        | 12       | 0                         | 6  | 17 | 20 | 2    | 1 | 0                         | 22 | 32 | 6  | 8    | 5 |
| 13        | 13       | 0                         | 6  | 48 | 47 | 2    | 1 | 0                         | 23 | 3  | 53 | 8    | 5 |
| 14        | 14       | 0                         | 7  | 20 | 13 | 3    | 1 | 0                         | 23 | 35 | 0  | 8    | 5 |
| 15        | 15       | 0                         | 7  | 51 | 40 | 3    | 1 | 0                         | 24 | 6  | 26 | 8    | 5 |
| 16        | 16       | 0                         | 8  | 23 | 6  | 3    | 2 | 0                         | 24 | 37 | 53 | 9    | 5 |
| 17        | 17       | 0                         | 8  | 54 | 33 | 3    | 2 | 0                         | 25 | 9  | 9  | 9    | 5 |
| 18        | 18       | 0                         | 9  | 25 | 0  | 3    | 2 | 0                         | 25 | 40 | 46 | 9    | 5 |
| 19        | 19       | 0                         | 9  | 57 | 26 | 3    | 2 | 0                         | 26 | 12 | 13 | 9    | 6 |
| 20        | 20       | 0                         | 10 | 28 | 53 | 4    | 2 | 0                         | 26 | 43 | 39 | 9    | 6 |
| 21        | 21       | 0                         | 11 | 0  | 20 | 4    | 2 | 0                         | 27 | 15 | 6  | 10   | 6 |
| 22        | 22       | 0                         | 11 | 31 | 46 | 4    | 3 | 0                         | 27 | 46 | 33 | 10   | 6 |
| 23        | 23       | 0                         | 12 | 3  | 13 | 4    | 3 | 0                         | 28 | 17 | 59 | 10   | 6 |
| 24        | 24       | 0                         | 12 | 34 | 40 | 4    | 3 | 0                         | 28 | 49 | 26 | 10   | 6 |
| 25        | 25       | 0                         | 13 | 6  | 6  | 5    | 3 | 0                         | 29 | 20 | 53 | 10   | 6 |
| 26        | 26       | 0                         | 13 | 37 | 33 | 5    | 3 | 0                         | 29 | 52 | 19 | 10   | 6 |
| 27        | 27       | 0                         | 14 | 8  | 0  | 5    | 3 | 1                         | 0  | 23 | 46 | 11   | 6 |
| 28        | 28       | 0                         | 14 | 40 | 26 | 5    | 3 | 1                         | 0  | 55 | 13 | 11   | 7 |
| 29        | 29       | 0                         | 15 | 11 | 53 | 5    | 3 | 1                         | 1  | 26 | 39 | 11   | 7 |
| 30        | 30       | 0                         | 15 | 43 | 20 | 6    | 3 |                           |    |    |    |      |   |
| 31        | 31       | 0                         | 16 | 14 | 46 | 6    | 3 |                           |    |    |    |      |   |

| Bifexilis | Communis | MARTIVS                   |    |    |    |       |    | APRILIS                   |    |    |    |       |    |
|-----------|----------|---------------------------|----|----|----|-------|----|---------------------------|----|----|----|-------|----|
|           |          | Longitudo ☿<br>ab Aequin. |    |    |    | Apos. | Ω  | Longitudo ☿<br>ab Aequin. |    |    |    | Apos. | Ω  |
|           |          | S                         | P  | I  | "  |       |    | S                         | P  | I  | "  |       |    |
|           | Dies     |                           |    |    |    |       |    |                           |    |    |    |       |    |
|           | 1        | 1                         | 1  | 26 | 39 | 11    | 7  | 1                         | 17 | 41 | 26 | 17    | 10 |
| 1         | 2        | 1                         | 1  | 58 | 6  | 11    | 7  | 1                         | 18 | 12 | 52 | 17    | 10 |
| 2         | 3        | 1                         | 2  | 29 | 33 | 11    | 7  | 1                         | 18 | 44 | 19 | 17    | 10 |
| 3         | 4        | 1                         | 3  | 0  | 59 | 12    | 7  | 1                         | 19 | 15 | 46 | 17    | 11 |
| 4         | 5        | 1                         | 3  | 32 | 26 | 12    | 7  | 1                         | 19 | 47 | 12 | 17    | 11 |
| 5         | 6        | 1                         | 4  | 3  | 53 | 12    | 7  | 1                         | 20 | 18 | 39 | 18    | 11 |
| 6         | 7        | 1                         | 4  | 35 | 19 | 12    | 7  | 1                         | 20 | 50 | 6  | 18    | 11 |
| 7         | 8        | 1                         | 5  | 0  | 46 | 12    | 8  | 1                         | 21 | 21 | 32 | 18    | 11 |
| 8         | 9        | 1                         | 5  | 38 | 13 | 12    | 8  | 1                         | 21 | 52 | 59 | 18    | 11 |
| 9         | 10       | 1                         | 6  | 9  | 39 | 13    | 8  | 1                         | 22 | 24 | 26 | 18    | 11 |
| 10        | 11       | 1                         | 6  | 41 | 6  | 13    | 8  | 1                         | 22 | 55 | 52 | 19    | 11 |
| 11        | 12       | 1                         | 7  | 12 | 33 | 13    | 8  | 1                         | 23 | 27 | 19 | 19    | 12 |
| 12        | 13       | 1                         | 7  | 43 | 59 | 13    | 8  | 1                         | 23 | 58 | 46 | 19    | 12 |
| 13        | 14       | 1                         | 8  | 15 | 26 | 13    | 8  | 1                         | 24 | 30 | 12 | 19    | 12 |
| 14        | 15       | 1                         | 8  | 46 | 53 | 14    | 8  | 1                         | 25 | 1  | 39 | 19    | 12 |
| 15        | 16       | 1                         | 9  | 18 | 19 | 14    | 8  | 1                         | 25 | 33 | 6  | 19    | 12 |
| 16        | 17       | 1                         | 9  | 49 | 46 | 14    | 9  | 1                         | 26 | 4  | 32 | 20    | 12 |
| 17        | 18       | 1                         | 10 | 21 | 12 | 14    | 9  | 1                         | 26 | 35 | 59 | 20    | 12 |
| 18        | 19       | 1                         | 10 | 52 | 39 | 14    | 9  | 1                         | 27 | 7  | 26 | 20    | 12 |
| 19        | 20       | 1                         | 11 | 24 | 6  | 15    | 9  | 1                         | 27 | 38 | 52 | 20    | 13 |
| 20        | 21       | 1                         | 11 | 55 | 32 | 15    | 9  | 1                         | 28 | 10 | 19 | 20    | 13 |
| 21        | 22       | 1                         | 12 | 26 | 59 | 15    | 9  | 1                         | 28 | 41 | 45 | 20    | 13 |
| 22        | 23       | 1                         | 12 | 58 | 26 | 15    | 9  | 1                         | 29 | 13 | 12 | 21    | 13 |
| 23        | 24       | 1                         | 13 | 29 | 52 | 15    | 9  | 1                         | 29 | 44 | 39 | 21    | 13 |
| 24        | 25       | 1                         | 14 | 1  | 19 | 15    | 9  | 2                         | 0  | 16 | 5  | 21    | 13 |
| 25        | 26       | 1                         | 14 | 32 | 46 | 16    | 10 | 2                         | 0  | 47 | 32 | 21    | 13 |
| 26        | 27       | 1                         | 15 | 4  | 12 | 16    | 10 | 2                         | 1  | 18 | 59 | 21    | 13 |
| 27        | 28       | 1                         | 15 | 37 | 39 | 16    | 10 | 2                         | 1  | 50 | 25 | 21    | 13 |
| 28        | 29       | 1                         | 16 | 7  | 5  | 16    | 10 | 2                         | 2  | 21 | 52 | 22    | 14 |
| 29        | 30       | 1                         | 16 | 38 | 32 | 16    | 10 | 2                         | 2  | 53 | 19 | 22    | 14 |
| 30        | 31       | 1                         | 17 | 9  | 59 | 17    | 10 | 2                         | 3  | 24 | 45 | 22    | 14 |
| 31        |          | 1                         | 17 | 43 | 26 | 17    | 10 |                           |    |    |    |       |    |



*Ad singulos dies anni.*

| S  | Apo. | Ω |
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| 18 | 11   | " |
| 19 | 11   | " |
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| 19 | 12   | " |
| 19 | 12   | " |
| 20 | 12   | " |
| 20 | 12   | " |
| 20 | 12   | " |
| 20 | 13   | " |
| 20 | 13   | " |
| 21 | 13   | " |
| 21 | 13   | " |
| 21 | 13   | " |
| 21 | 13   | " |
| 21 | 13   | " |
| 22 | 14   | " |
| 22 | 14   | " |
| 22 | 14   | " |

| Biflexilis | Communis | M A I V S                 |    |    |    |      | I V N I V S               |    |    |    |      |
|------------|----------|---------------------------|----|----|----|------|---------------------------|----|----|----|------|
|            |          | Longitudo ♂<br>ab Aequin. |    |    |    | Apo. | Longitudo ♂<br>ab Aequin. |    |    |    | Apo. |
|            |          | S                         | P  | I  | "  | "    | S                         | P  | I  | "  | "    |
|            | Dies     |                           |    |    |    |      |                           |    |    |    |      |
|            | 1        | 2                         | 3  | 24 | 45 | 22   | 19                        | 39 | 32 | 28 | 17   |
|            | 2        | 2                         | 3  | 56 | 12 | 22   | 20                        | 10 | 58 | 28 | 17   |
|            | 3        | 2                         | 4  | 27 | 39 | 22   | 20                        | 42 | 25 | 28 | 17   |
|            | 4        | 2                         | 4  | 59 | 5  | 23   | 21                        | 13 | 52 | 28 | 18   |
|            | 5        | 2                         | 5  | 30 | 32 | 23   | 21                        | 45 | 18 | 29 | 18   |
|            | 6        | 2                         | 6  | 1  | 59 | 23   | 22                        | 16 | 45 | 29 | 18   |
|            | 7        | 2                         | 6  | 33 | 25 | 23   | 22                        | 48 | 12 | 29 | 18   |
|            | 8        | 2                         | 7  | 4  | 52 | 23   | 23                        | 19 | 38 | 29 | 18   |
|            | 9        | 2                         | 7  | 36 | 19 | 24   | 23                        | 51 | 5  | 29 | 18   |
|            | 10       | 2                         | 8  | 7  | 45 | 24   | 24                        | 22 | 32 | 30 | 18   |
|            | 11       | 2                         | 8  | 39 | 12 | 24   | 24                        | 53 | 58 | 30 | 18   |
|            | 12       | 2                         | 9  | 10 | 39 | 24   | 25                        | 25 | 25 | 30 | 18   |
|            | 13       | 2                         | 9  | 42 | 5  | 24   | 25                        | 56 | 52 | 30 | 19   |
|            | 14       | 2                         | 10 | 13 | 32 | 24   | 26                        | 28 | 18 | 30 | 19   |
|            | 15       | 2                         | 10 | 44 | 59 | 25   | 26                        | 59 | 45 | 30 | 19   |
|            | 16       | 2                         | 11 | 16 | 25 | 25   | 27                        | 31 | 12 | 31 | 19   |
|            | 17       | 2                         | 11 | 47 | 52 | 25   | 28                        | 2  | 37 | 31 | 19   |
|            | 18       | 2                         | 12 | 19 | 19 | 25   | 28                        | 34 | 4  | 31 | 19   |
|            | 19       | 2                         | 12 | 50 | 45 | 25   | 29                        | 5  | 30 | 31 | 19   |
|            | 20       | 2                         | 13 | 22 | 12 | 26   | 29                        | 36 | 57 | 31 | 19   |
|            | 21       | 2                         | 13 | 53 | 39 | 26   | 30                        | 8  | 24 | 32 | 19   |
|            | 22       | 2                         | 14 | 25 | 5  | 26   | 30                        | 39 | 50 | 32 | 20   |
|            | 23       | 2                         | 14 | 56 | 32 | 26   | 31                        | 11 | 17 | 32 | 20   |
|            | 24       | 2                         | 15 | 27 | 58 | 26   | 31                        | 42 | 44 | 32 | 20   |
|            | 25       | 2                         | 15 | 59 | 25 | 27   | 32                        | 14 | 10 | 32 | 20   |
|            | 26       | 2                         | 16 | 30 | 52 | 27   | 32                        | 45 | 37 | 32 | 20   |
|            | 27       | 2                         | 17 | 2  | 18 | 27   | 33                        | 17 | 4  | 33 | 20   |
|            | 28       | 2                         | 17 | 33 | 45 | 27   | 33                        | 48 | 30 | 33 | 20   |
|            | 29       | 2                         | 18 | 5  | 12 | 27   | 34                        | 19 | 57 | 33 | 20   |
|            | 30       | 2                         | 18 | 36 | 38 | 27   | 34                        | 51 | 24 | 33 | 20   |
|            | 31       | 2                         | 19 | 8  | 5  | 28   | 35                        | 22 | 50 | 33 | 20   |
|            |          | 2                         | 19 | 39 | 32 | 28   |                           |    |    |    |      |

| Bifexilis | Communis | IVLVIS                    |    |    |    |       |    | AVGVSTVS                  |    |    |    |       |    |
|-----------|----------|---------------------------|----|----|----|-------|----|---------------------------|----|----|----|-------|----|
|           |          | Longitudo ♂<br>ab Aequin. |    |    |    | Apoq. | Ω  | Longitudo ♂<br>ab Aequin. |    |    |    | Apoq. | Ω  |
|           |          | S                         | P  | I  | "  |       |    | S                         | P  | I  | "  |       |    |
|           | 1        | 3                         | 5  | 22 | 50 | 33    | 20 | 3                         | 21 | 37 | 37 | 39    | 24 |
| 1         | 2        | 3                         | 5  | 54 | 17 | 33    | 21 | 3                         | 22 | 9  | 3  | 39    | 24 |
| 2         | 3        | 3                         | 6  | 25 | 44 | 34    | 21 | 3                         | 22 | 40 | 30 | 39    | 24 |
| 3         | 4        | 3                         | 6  | 57 | 10 | 34    | 21 | 3                         | 23 | 11 | 57 | 40    | 24 |
| 4         | 5        | 3                         | 7  | 28 | 37 | 34    | 21 | 3                         | 23 | 43 | 23 | 40    | 24 |
| 5         | 6        | 3                         | 8  | 0  | 4  | 34    | 21 | 3                         | 24 | 14 | 50 | 40    | 25 |
| 6         | 7        | 3                         | 8  | 31 | 31 | 34    | 21 | 3                         | 24 | 46 | 16 | 40    | 25 |
| 7         | 8        | 3                         | 9  | 2  | 57 | 35    | 21 | 3                         | 25 | 17 | 43 | 40    | 25 |
| 8         | 9        | 3                         | 9  | 34 | 24 | 35    | 21 | 3                         | 25 | 49 | 10 | 40    | 25 |
| 9         | 10       | 3                         | 10 | 5  | 50 | 35    | 22 | 3                         | 26 | 20 | 36 | 41    | 25 |
| 10        | 11       | 3                         | 10 | 37 | 17 | 35    | 22 | 3                         | 26 | 52 | 3  | 41    | 25 |
| 11        | 12       | 3                         | 11 | 8  | 43 | 35    | 22 | 3                         | 27 | 23 | 30 | 41    | 25 |
| 12        | 13       | 3                         | 11 | 40 | 10 | 35    | 22 | 3                         | 27 | 54 | 56 | 41    | 25 |
| 13        | 14       | 3                         | 12 | 1  | 37 | 36    | 22 | 3                         | 28 | 26 | 23 | 41    | 25 |
| 14        | 15       | 3                         | 12 | 43 | 3  | 36    | 22 | 3                         | 28 | 57 | 50 | 42    | 25 |
| 15        | 16       | 3                         | 13 | 14 | 30 | 36    | 22 | 3                         | 29 | 29 | 16 | 42    | 26 |
| 16        | 17       | 3                         | 13 | 45 | 57 | 36    | 22 | 4                         | 0  | 0  | 43 | 42    | 26 |
| 17        | 18       | 3                         | 14 | 17 | 23 | 36    | 22 | 4                         | 0  | 32 | 10 | 42    | 26 |
| 18        | 19       | 3                         | 14 | 48 | 50 | 37    | 23 | 4                         | 1  | 3  | 36 | 42    | 26 |
| 19        | 20       | 3                         | 15 | 20 | 17 | 37    | 23 | 4                         | 1  | 35 | 3  | 42    | 26 |
| 20        | 21       | 3                         | 15 | 51 | 43 | 37    | 23 | 4                         | 2  | 6  | 29 | 43    | 26 |
| 21        | 22       | 3                         | 16 | 23 | 10 | 37    | 23 | 4                         | 2  | 37 | 56 | 43    | 26 |
| 22        | 23       | 3                         | 16 | 54 | 37 | 37    | 23 | 4                         | 3  | 9  | 23 | 43    | 26 |
| 23        | 24       | 3                         | 17 | 26 | 3  | 37    | 23 | 4                         | 3  | 40 | 49 | 43    | 2  |
| 24        | 25       | 3                         | 17 | 57 | 30 | 38    | 23 | 4                         | 4  | 12 | 16 | 43    | 2  |
| 25        | 26       | 3                         | 18 | 28 | 57 | 38    | 23 | 4                         | 4  | 43 | 43 | 43    | 27 |
| 26        | 27       | 3                         | 19 | 0  | 23 | 38    | 23 | 4                         | 5  | 15 | 9  | 44    | 27 |
| 27        | 28       | 3                         | 19 | 31 | 50 | 38    | 24 | 4                         | 5  | 46 | 36 | 44    | 27 |
| 28        | 29       | 3                         | 20 | 3  | 17 | 38    | 24 | 4                         | 6  | 18 | 3  | 44    | 27 |
| 29        | 30       | 3                         | 20 | 34 | 43 | 39    | 24 | 4                         | 6  | 49 | 29 | 44    | 27 |
| 30        | 31       | 3                         | 21 | 6  | 10 | 39    | 24 | 4                         | 7  | 20 | 56 | 44    | 27 |
| 31        |          | 3                         | 21 | 37 | 37 | 39    | 24 | 4                         | 7  | 52 | 23 | 45    | 27 |



# Ac Tab. Secundorum Mobilium.

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Ad singulos dies anni.

| VS   |    |
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| Apo. | Ω  |
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| 45   | 27 |

| Biflexilis | Communis | SEPTEMBER                 |    |    |    |      |    | OCTOBER                   |    |    |    |      |    |
|------------|----------|---------------------------|----|----|----|------|----|---------------------------|----|----|----|------|----|
|            |          | Longitudo ♂<br>ab Aequin. |    |    |    | Apo. | Ω  | Longitudo ♂<br>ab Aequin. |    |    |    | Apo. | Ω  |
|            |          | S                         | P  | I  | "  |      |    | S                         | P  | I  | "  |      |    |
|            | Dies     |                           |    |    |    |      |    |                           |    |    |    |      |    |
|            | 1        | 4                         | 7  | 52 | 23 | 45   | 27 | 4                         | 23 | 35 | 42 | 50   | 31 |
|            | 2        | 4                         | 8  | 23 | 49 | 45   | 28 | 4                         | 24 | 7  | 9  | 50   | 31 |
|            | 3        | 4                         | 8  | 55 | 16 | 45   | 28 | 4                         | 24 | 38 | 36 | 51   | 31 |
|            | 4        | 4                         | 9  | 26 | 43 | 45   | 28 | 4                         | 25 | 10 | 2  | 51   | 31 |
|            | 5        | 4                         | 9  | 58 | 9  | 46   | 28 | 4                         | 25 | 41 | 29 | 51   | 31 |
|            | 6        | 4                         | 10 | 29 | 36 | 46   | 28 | 4                         | 26 | 12 | 56 | 51   | 32 |
|            | 7        | 4                         | 11 | 7  | 3  | 46   | 28 | 4                         | 26 | 44 | 22 | 51   | 32 |
|            | 8        | 4                         | 11 | 32 | 29 | 46   | 28 | 4                         | 27 | 15 | 49 | 52   | 32 |
|            | 9        | 4                         | 12 | 3  | 56 | 46   | 28 | 4                         | 27 | 47 | 16 | 52   | 32 |
|            | 10       | 4                         | 12 | 35 | 23 | 46   | 29 | 4                         | 28 | 18 | 42 | 52   | 32 |
|            | 11       | 4                         | 13 | 6  | 49 | 47   | 29 | 4                         | 28 | 50 | 9  | 52   | 32 |
|            | 12       | 4                         | 13 | 38 | 16 | 47   | 29 | 4                         | 29 | 21 | 36 | 52   | 32 |
|            | 13       | 4                         | 14 | 9  | 43 | 47   | 29 | 4                         | 29 | 53 | 2  | 52   | 32 |
|            | 14       | 4                         | 14 | 41 | 9  | 47   | 29 | 5                         | 0  | 24 | 29 | 53   | 32 |
|            | 15       | 4                         | 15 | 12 | 36 | 47   | 29 | 5                         | 0  | 55 | 55 | 53   | 33 |
|            | 16       | 4                         | 15 | 44 | 2  | 48   | 29 | 5                         | 1  | 27 | 22 | 53   | 33 |
|            | 17       | 4                         | 16 | 15 | 29 | 48   | 29 | 5                         | 2  | 58 | 49 | 53   | 33 |
|            | 18       | 4                         | 16 | 46 | 56 | 48   | 29 | 5                         | 2  | 30 | 15 | 53   | 33 |
|            | 19       | 4                         | 17 | 18 | 22 | 48   | 30 | 5                         | 3  | 1  | 42 | 54   | 33 |
|            | 20       | 4                         | 17 | 49 | 49 | 48   | 30 | 5                         | 3  | 33 | 9  | 54   | 33 |
|            | 21       | 4                         | 18 | 21 | 16 | 48   | 30 | 5                         | 4  | 4  | 35 | 54   | 33 |
|            | 22       | 4                         | 18 | 52 | 42 | 49   | 30 | 5                         | 4  | 36 | 2  | 54   | 33 |
|            | 23       | 4                         | 19 | 24 | 9  | 49   | 30 | 5                         | 5  | 7  | 29 | 54   | 33 |
|            | 24       | 4                         | 19 | 55 | 36 | 49   | 30 | 5                         | 5  | 38 | 55 | 54   | 34 |
|            | 25       | 4                         | 20 | 27 | 2  | 49   | 30 | 5                         | 6  | 10 | 22 | 55   | 34 |
|            | 26       | 4                         | 20 | 58 | 29 | 49   | 30 | 5                         | 6  | 41 | 49 | 55   | 34 |
|            | 27       | 4                         | 21 | 29 | 56 | 49   | 30 | 5                         | 7  | 13 | 15 | 55   | 34 |
|            | 28       | 4                         | 22 | 1  | 22 | 50   | 31 | 5                         | 7  | 44 | 42 | 55   | 34 |
|            | 29       | 4                         | 22 | 32 | 49 | 50   | 31 | 5                         | 8  | 16 | 9  | 55   | 34 |
|            | 30       | 4                         | 23 | 4  | 16 | 50   | 31 | 5                         | 8  | 47 | 35 | 56   | 34 |
|            | 31       | 4                         | 23 | 35 | 42 | 50   | 31 | 5                         | 9  | 19 | 2  | 56   | 34 |
|            |          |                           |    |    |    |      |    | 5                         | 9  | 50 | 29 | 56   | 34 |

| Diflexilis | Communis | NOVEMBER                 |    |    |    |       |    | DECEMBER                 |    |    |    |       |    |    |    |
|------------|----------|--------------------------|----|----|----|-------|----|--------------------------|----|----|----|-------|----|----|----|
|            |          | Longitudo♂<br>ab Aequin. |    |    |    | Apoq. | ♂  | Longitudo♂<br>ab Aequin. |    |    |    | Apoq. | ♂  |    |    |
|            |          | S                        | P  | I  | II |       |    | S                        | P  | I  | II |       |    |    |    |
| Dies       |          | S                        | P  | I  | II | II    | II | S                        | P  | I  | II | I     | II | II |    |
|            | 1        | 5                        | 9  | 50 | 29 | 56    | 34 | 5                        | 25 | 33 | 48 | I     | 1  | 38 |    |
| I          | 2        | 5                        | 10 | 21 | 55 | 56    | 34 | 5                        | 26 | 5  | 15 | I     | 2  | 38 |    |
| 2          | 3        | 5                        | 10 | 53 | 22 | 56    | 35 | 5                        | 26 | 36 | 42 | I     | 2  | 38 |    |
| 3          | 4        | 5                        | 11 | 24 | 49 | 57    | 35 | 5                        | 27 | 8  | 8  | I     | 2  | 38 |    |
| 4          | 5        | 5                        | 11 | 56 | 15 | 57    | 35 | 5                        | 27 | 39 | 35 | I     | 2  | 38 |    |
| 5          | 6        | 5                        | 12 | 27 | 42 | 57    | 35 | 5                        | 28 | 11 | 2  | I     | 2  | 38 |    |
| 6          | 7        | 5                        | 12 | 59 | 9  | 57    | 35 | 5                        | 28 | 42 | 28 | I     | 3  | 38 |    |
| 7          | 8        | 5                        | 13 | 30 | 35 | 57    | 35 | 5                        | 29 | 13 | 55 | I     | 3  | 38 |    |
| 8          | 9        | 5                        | 14 | 2  | 2  | 58    | 35 | 5                        | 29 | 45 | 21 | I     | 3  | 39 |    |
| 9          | 10       | 5                        | 14 | 33 | 28 | 58    | 35 | 6                        | 0  | 16 | 48 | I     | 3  | 39 |    |
| 10         | 11       | 5                        | 15 | 4  | 55 | 58    | 35 | 6                        | 0  | 48 | 15 | I     | 3  | 39 |    |
| 11         | 12       | 5                        | 15 | 36 | 22 | 58    | 36 | 6                        | 1  | 19 | 41 | I     | 3  | 39 |    |
| 12         | 13       | 5                        | 16 | 7  | 48 | 58    | 36 | 6                        | 1  | 52 | 8  | I     | 4  | 39 |    |
| 13         | 14       | 5                        | 16 | 39 | 15 | 58    | 36 | 6                        | 2  | 22 | 35 | I     | 4  | 39 |    |
| 14         | 15       | 5                        | 17 | 10 | 42 | 59    | 36 | 6                        | 2  | 54 | 1  | I     | 4  | 39 |    |
| 15         | 16       | 5                        | 17 | 42 | 8  | 59    | 36 | 6                        | 3  | 25 | 28 | I     | 4  | 39 |    |
| 16         | 17       | 5                        | 18 | 13 | 35 | 59    | 36 | 6                        | 3  | 56 | 55 | I     | 4  | 39 |    |
| 17         | 18       | 5                        | 18 | 45 | 2  | 59    | 36 | 6                        | 4  | 28 | 21 | I     | 5  | 39 |    |
| 18         | 19       | 5                        | 19 | 16 | 28 | 59    | 36 | 6                        | 4  | 59 | 48 | I     | 5  | 40 |    |
| 19         | 20       | 5                        | 19 | 47 | 55 | I     | 0  | 36                       | 6  | 5  | 31 | 15    | I  | 5  | 40 |
| 20         | 21       | 5                        | 20 | 19 | 22 | I     | 0  | 37                       | 6  | 6  | 2  | 41    | I  | 5  | 40 |
| 21         | 22       | 5                        | 20 | 50 | 48 | I     | 0  | 37                       | 6  | 6  | 34 | 8     | I  | 5  | 40 |
| 22         | 23       | 5                        | 21 | 22 | 15 | I     | 0  | 37                       | 6  | 7  | 5  | 35    | I  | 5  | 40 |
| 23         | 24       | 5                        | 21 | 53 | 42 | I     | 0  | 37                       | 6  | 7  | 37 | 1     | I  | 6  | 40 |
| 24         | 25       | 5                        | 22 | 25 | 8  | I     | 0  | 37                       | 6  | 8  | 8  | 28    | I  | 6  | 40 |
| 25         | 26       | 5                        | 22 | 56 | 35 | I     | 0  | 37                       | 6  | 8  | 39 | 55    | I  | 6  | 40 |
| 26         | 27       | 5                        | 23 | 28 | 2  | I     | I  | 37                       | 6  | 9  | 11 | 21    | I  | 6  | 40 |
| 27         | 28       | 5                        | 23 | 59 | 28 | I     | I  | 37                       | 6  | 9  | 42 | 48    | I  | 6  | 41 |
| 28         | 29       | 5                        | 24 | 30 | 55 | I     | I  | 37                       | 6  | 10 | 14 | 15    | I  | 6  | 41 |
| 29         | 30       | 5                        | 25 | 2  | 22 | I     | I  | 38                       | 6  | 10 | 45 | 41    | I  | 7  | 41 |
| 30         | 31       | 5                        | 25 | 33 | 48 | I     | I  | 38                       | 6  | 11 | 17 | 8     | I  | 7  | 41 |
| 31         |          |                          |    |    |    |       |    |                          | 6  | 11 | 48 | 35    | I  | 7  | 41 |



Tabula Aequationum motuum ☿ in horis &amp; minutis.

| Longitudo Martis<br>ab Aequinoctio. |   |    |     |     | Longitudo Martis<br>ab Aequinoctio. |   |    |     |     |
|-------------------------------------|---|----|-----|-----|-------------------------------------|---|----|-----|-----|
| Hor.                                | S | P  | I   | II  | Min.                                | P | I  | II  | III |
| Min.                                | P | I  | II  | III | Sec.                                | I | II | III | III |
| Sec.                                | I | II | III | III |                                     |   |    |     |     |
| 1                                   | 0 | 0  | 1   | 19  | 31                                  | 0 | 0  | 40  | 37  |
| 2                                   | 0 | 0  | 2   | 37  | 32                                  | 0 | 0  | 41  | 55  |
| 3                                   | 0 | 0  | 3   | 56  | 33                                  | 0 | 0  | 43  | 14  |
| 4                                   | 0 | 0  | 5   | 14  | 34                                  | 0 | 0  | 44  | 32  |
| 5                                   | 0 | 0  | 6   | 33  | 35                                  | 0 | 0  | 45  | 51  |
| 6                                   | 0 | 0  | 7   | 52  | 36                                  | 0 | 0  | 47  | 10  |
| 7                                   | 0 | 0  | 9   | 10  | 37                                  | 0 | 0  | 48  | 28  |
| 8                                   | 0 | 0  | 10  | 29  | 38                                  | 0 | 0  | 49  | 47  |
| 9                                   | 0 | 0  | 11  | 47  | 39                                  | 0 | 0  | 51  | 5   |
| 10                                  | 0 | 0  | 13  | 6   | 40                                  | 0 | 0  | 52  | 24  |
| 11                                  | 0 | 0  | 14  | 25  | 41                                  | 0 | 0  | 53  | 43  |
| 12                                  | 0 | 0  | 15  | 43  | 42                                  | 0 | 0  | 55  | 1   |
| 13                                  | 0 | 0  | 17  | 2   | 43                                  | 0 | 0  | 56  | 20  |
| 14                                  | 0 | 0  | 18  | 20  | 44                                  | 0 | 0  | 57  | 38  |
| 15                                  | 0 | 0  | 19  | 39  | 45                                  | 0 | 0  | 58  | 57  |
| 16                                  | 0 | 0  | 20  | 58  | 46                                  | 0 | I  | 0   | 16  |
| 17                                  | 0 | 0  | 22  | 16  | 47                                  | 0 | I  | 1   | 34  |
| 18                                  | 0 | 0  | 23  | 35  | 48                                  | 0 | I  | 2   | 53  |
| 19                                  | 0 | 0  | 24  | 53  | 49                                  | 0 | I  | 4   | 11  |
| 20                                  | 0 | 0  | 26  | 12  | 50                                  | 0 | I  | 5   | 30  |
| 21                                  | 0 | 0  | 27  | 31  | 51                                  | 0 | I  | 6   | 49  |
| 22                                  | 0 | 0  | 28  | 49  | 52                                  | 0 | I  | 8   | 7   |
| 23                                  | 0 | 0  | 30  | 8   | 53                                  | 0 | I  | 9   | 26  |
| 24                                  | 0 | 0  | 31  | 26  | 54                                  | 0 | I  | 10  | 44  |
| 25                                  | 0 | 0  | 32  | 45  | 55                                  | 0 | I  | 12  | 3   |
| 26                                  | 0 | 0  | 34  | 4   | 56                                  | 0 | I  | 13  | 22  |
| 27                                  | 0 | 0  | 35  | 22  | 57                                  | 0 | I  | 14  | 40  |
| 28                                  | 0 | 0  | 36  | 41  | 58                                  | 0 | I  | 15  | 59  |
| 29                                  | 0 | 0  | 37  | 59  | 59                                  | 0 | I  | 17  | 17  |
| 30                                  | 0 | 0  | 39  | 18  | 60                                  | 0 | I  | 18  | 36  |

Supplementum Ephemeridum,  
Prior Tabula Aequationum Martis Tychonica.

| Anom. Eccl. |   | O Signum                  |    |                 |               | Anom. Eccl. |   | I Signum |                           |        |                 | Anom. Eccl.   |    |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------|---|---------------------------|----|-----------------|---------------|-------------|---|----------|---------------------------|--------|-----------------|---------------|----|----------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 5           |   | Aequatio Centri. Subtrahe |    | Distantia ♂ à ☉ | Differencia A | S           | 5 |          | Aequatio Centri. Subtrahe |        | Distantia ♂ à ☉ | Differencia A | S  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| P           |   | I                         |    |                 |               |             | P |          | I                         |        |                 |               |    |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 0           | 0 | 0                         | 0  | 166465          |               |             | 4 | 50       | 3                         | 164908 |                 |               | 30 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 1           | 0 | 10                        | 0  | 166461          |               |             | 4 | 59       | 1                         | 164799 |                 |               | 29 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2           | 0 | 20                        | 0  | 166454          | 4             |             | 5 | 7        | 55                        | 8      | 58              | 109           | 28 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3           | 0 | 30                        | 0  | 166444          | 7             |             | 5 | 16       | 45                        | 8      | 50              | 113           | 27 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4           | 0 | 40                        | 0  | 166431          | 10            |             | 5 | 25       | 30                        | 8      | 54              | 116           | 26 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 5           | 0 | 49                        | 59 | 166414          | 13            |             | 5 | 34       | 10                        | 8      | 45              | 120           | 25 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 6           | 0 | 59                        | 58 | 166394          | 17            |             | 5 | 42       | 46                        | 8      | 40              | 124           | 24 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 7           | 1 | 9                         | 56 | 166371          | 20            |             | 5 | 51       | 17                        | 8      | 36              | 128           | 23 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 8           | 1 | 19                        | 52 | 166345          | 23            |             | 5 | 59       | 43                        | 8      | 31              | 131           | 22 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 9           | 1 | 29                        | 47 | 166316          | 26            |             | 6 | 8        | 5                         | 8      | 26              | 134           | 21 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10          | 1 | 39                        | 41 | 166284          | 29            |             | 6 | 16       | 21                        | 8      | 22              | 137           | 20 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 11          | 1 | 49                        | 34 | 166249          | 32            |             | 6 | 24       | 31                        | 8      | 16              | 140           | 19 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12          | 1 | 59                        | 25 | 166210          | 35            |             | 6 | 32       | 36                        | 8      | 10              | 144           | 18 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 13          | 2 | 9                         | 15 | 166168          | 39            |             | 6 | 40       | 35                        | 8      | 5               | 147           | 17 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 14          | 2 | 19                        | 4  | 166123          | 42            |             | 6 | 48       | 28                        | 7      | 59              | 150           | 16 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 15          | 2 | 28                        | 51 | 166075          | 45            |             | 6 | 56       | 16                        | 7      | 53              | 153           | 15 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 16          | 2 | 38                        | 35 | 166023          | 48            |             | 6 | 56       | 16                        | 7      | 43              | 156           | 14 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17          | 2 | 48                        | 17 | 165968          | 52            |             | 7 | 3        | 58                        | 7      | 42              | 158           | 13 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 18          | 2 | 57                        | 56 | 165909          | 55            |             | 7 | 11       | 34                        | 7      | 36              | 161           | 12 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 19          | 3 | 7                         | 32 | 165846          | 59            |             | 7 | 19       | 4                         | 7      | 30              | 163           | 11 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20          | 3 | 17                        | 6  | 165780          | 63            |             | 7 | 26       | 27                        | 7      | 23              | 166           | 10 |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 21          | 3 | 26                        | 37 | 165710          | 66            |             | 7 | 33       | 43                        | 7      | 16              | 168           | 9  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22          | 3 | 36                        | 6  | 165636          | 70            |             | 7 | 40       | 52                        | 7      | 9               | 170           | 8  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 23          | 3 | 45                        | 32 | 165559          | 74            |             | 7 | 47       | 55                        | 7      | 3               | 172           | 7  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 24          | 3 | 54                        | 56 | 165478          | 77            |             | 7 | 54       | 52                        | 6      | 59              | 175           | 6  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 25          | 4 | 4                         | 16 | 165393          | 81            |             | 8 | 1        | 41                        | 6      | 47              | 177           | 5  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 26          | 4 | 13                        | 33 | 165304          | 85            |             | 8 | 8        | 22                        | 6      | 41              | 179           | 4  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 27          | 4 | 22                        | 46 | 165211          | 89            |             | 8 | 14       | 56                        | 6      | 34              | 181           | 3  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 28          | 4 | 31                        | 55 | 165114          | 93            |             | 8 | 21       | 24                        | 6      | 28              | 183           | 2  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 29          | 4 | 41                        | 1  | 165013          | 97            |             | 8 | 27       | 44                        | 6      | 20              | 185           | 1  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30          | 4 | 50                        | 3  | 164908          | 101           |             | 8 | 33       | 56                        | 6      | 12              | 188           | 0  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 4 | 50                        | 3  | 164908          | 105           |             | 8 | 39       | 59                        | 5      | 3               | 190           | 0  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
|             | 4 | 50                        | 3  | 164908          | 109           |             | 8 | 39       | 59                        | 5      | 58              | 192           | 0  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Adde        |   | S                         |    | A               |               | Adde        |   | S        |                           | A      |                 | A             |    |          |  |  |  |  |  |  |  |  |  |  |  |  |  |
| II Signa    |   |                           |    |                 |               |             |   |          |                           |        |                 |               |    | IO Signa |  |  |  |  |  |  |  |  |  |  |  |  |  |



| 2 Signa     |                           |             |                | 3 Signa     |                           |             |                |
|-------------|---------------------------|-------------|----------------|-------------|---------------------------|-------------|----------------|
| Anom. Eccē- | Aequatio Centri. Subtrahe | Differentia | Diffātia ♂ à ☿ | Anom. Eccē- | Aequatio Centri. Subtrahe | Differentia | Diffātia ♂ à ☿ |
| P           | I                         | "           | S              | P           | I                         | "           | S              |
| 0           | 8 39 59                   | A           | 160290         | 10 32 38    | 153650                    |             | 30             |
| 1           | 8 45 57                   |             | 160098         | 10 33 47    | 153406                    |             | 29             |
| 2           | 8 51 47                   | 5 58        | 159903         | 10 34 43    | 153161                    | 244         | 28             |
| 3           | 8 57 29                   | 5 50        | 159706         | 10 35 27    | 152915                    | 245         | 27             |
| 4           | 9 3 2                     | 5 42        | 159507         | 10 36 1     | 152669                    | 246         | 26             |
| 5           | 9 8 26                    | 5 33        | 159306         | 10 36 24    | 152422                    | 246         | 25             |
| 6           | 9 13 41                   | 5 24        | 159103         | 10 36 37    | 152175                    | 247         | 24             |
| 7           | 9 18 47                   | 5 15        | 158898         | 10 36 38    | 151928                    | 247         | 23             |
| 8           | 9 23 45                   | 5 6         | 158690         | 10 36 26    | 151680                    | 247         | 22             |
| 9           | 9 28 35                   | 4 58        | 158480         | 10 36 2     | 151432                    | 248         | 21             |
| 10          | 9 33 16                   | 4 50        | 158268         | 10 35 26    | 151184                    | 248         | 20             |
| 11          | 9 37 47                   | 4 41        | 158054         | 10 34 39    | 150936                    | 248         | 19             |
| 12          | 9 42 8                    | 4 31        | 157838         | 10 33 40    | 150689                    | 247         | 18             |
| 13          | 9 46 20                   | 4 21        | 157619         | 10 32 29    | 150442                    | 247         | 17             |
| 14          | 9 50 23                   | 4 12        | 157398         | 10 31 6     | 150196                    | 246         | 16             |
| 15          | 9 54 17                   | 4 3         | 157175         | 10 29 32    | 149950                    | 246         | 15             |
| 16          | 9 58 2                    | 3 54        | 156950         | 10 27 46    | 149705                    | 245         | 14             |
| 17          | 10 1 36                   | 3 45        | 156723         | 10 25 47    | 149460                    | 245         | 13             |
| 18          | 10 5 1                    | 3 34        | 156495         | 10 23 36    | 149216                    | 244         | 12             |
| 19          | 10 8 15                   | 3 25        | 156265         | 10 21 13    | 148972                    | 244         | 11             |
| 20          | 10 11 19                  | 3 14        | 156033         | 10 18 38    | 148729                    | 243         | 10             |
| 21          | 10 14 14                  | 3 4         | 155800         | 10 15 50    | 148486                    | 243         | 9              |
| 22          | 10 17 0                   | 2 55        | 155566         | 10 12 50    | 148243                    | 242         | 8              |
| 23          | 10 19 36                  | 2 46        | 155330         | 10 9 38     | 148001                    | 242         | 7              |
| 24          | 10 22 2                   | 2 36        | 155093         | 10 6 14     | 147759                    | 241         | 6              |
| 25          | 10 24 15                  | 2 26        | 154855         | 10 2 38     | 147518                    | 240         | 5              |
| 26          | 10 26 16                  | 2 13        | 154616         | 9 58 49     | 147278                    | 239         | 4              |
| 27          | 10 28 7                   | 1 51        | 154376         | 9 54 48     | 147039                    | 238         | 3              |
| 28          | 10 29 48                  | 1 41        | 154135         | 9 50 34     | 146801                    | 236         | 2              |
| 29          | 10 31 18                  | 1 30        | 153893         | 9 46 8      | 146565                    | 234         | 1              |
| 30          | 10 32 38                  | 1 20        | 153650         | 9 41 30     | 146331                    | 233         | 0              |
|             | Adde                      | S           | A              | Adde        | A                         | A           |                |
| 9 Signa     |                           |             |                | 8 Signa     |                           |             |                |

| Anom. Eccē.<br>S | 4 Signa                      |    |                  |                   | Anom. Eccē.<br>S |
|------------------|------------------------------|----|------------------|-------------------|------------------|
|                  | Aequatio Centri.<br>Subtrahe |    | Diffērentia<br>S | Diffātia<br>♂ à ☉ |                  |
|                  | P                            | I  |                  |                   |                  |
| 0                | 9                            | 41 | 30               | 146331            | 30               |
| 1                | 9                            | 36 | 40               | 146098            | 29               |
| 2                | 9                            | 31 | 37               | 145867            | 28               |
| 3                | 9                            | 26 | 22               | 145638            | 27               |
| 4                | 9                            | 20 | 55               | 145411            | 26               |
| 5                | 9                            | 15 | 17               | 145186            | 25               |
| 6                | 9                            | 9  | 27               | 144964            | 24               |
| 7                | 9                            | 3  | 24               | 144744            | 23               |
| 8                | 8                            | 57 | 9                | 144526            | 22               |
| 9                | 8                            | 50 | 42               | 144311            | 21               |
| 10               | 8                            | 44 | 4                | 144098            | 20               |
| 11               | 8                            | 37 | 14               | 143888            | 19               |
| 12               | 8                            | 30 | 13               | 143680            | 18               |
| 13               | 8                            | 23 | 0                | 143475            | 17               |
| 14               | 8                            | 15 | 35               | 143273            | 16               |
| 15               | 8                            | 7  | 59               | 143073            | 15               |
| 16               | 8                            | 0  | 12               | 142876            | 14               |
| 17               | 7                            | 52 | 14               | 142682            | 13               |
| 18               | 7                            | 44 | 4                | 142491            | 12               |
| 19               | 7                            | 35 | 43               | 142304            | 11               |
| 20               | 7                            | 27 | 12               | 142120            | 10               |
| 21               | 7                            | 18 | 31               | 141939            | 9                |
| 22               | 7                            | 9  | 40               | 141762            | 8                |
| 23               | 7                            | 0  | 38               | 141589            | 7                |
| 24               | 6                            | 51 | 26               | 141419            | 6                |
| 25               | 6                            | 42 | 4                | 141253            | 5                |
| 26               | 6                            | 32 | 31               | 141091            | 4                |
| 27               | 6                            | 22 | 49               | 140933            | 3                |
| 28               | 6                            | 12 | 58               | 140779            | 2                |
| 29               | 6                            | 2  | 58               | 140629            | 1                |
| 30               | 5                            | 52 | 50               | 140483            | 0                |
| trici            | Adde                         | A  |                  | A                 | trici            |
| 7 Signa          |                              |    |                  |                   |                  |

| Anom. Eccē.<br>S | 5 Signa                      |    |                  |                   | Anom. Eccē.<br>S |
|------------------|------------------------------|----|------------------|-------------------|------------------|
|                  | Aequatio Centri.<br>Subtrahe |    | Diffērentia<br>S | Diffātia<br>♂ à ☉ |                  |
|                  | P                            | I  |                  |                   |                  |
| 0                | 5                            | 52 | 50               | 140483            | 30               |
| 1                | 5                            | 42 | 33               | 140342            | 29               |
| 2                | 5                            | 32 | 7                | 140205            | 28               |
| 3                | 5                            | 21 | 32               | 140072            | 27               |
| 4                | 5                            | 10 | 49               | 139944            | 26               |
| 5                | 4                            | 59 | 59               | 139820            | 25               |
| 6                | 4                            | 49 | 1                | 139701            | 24               |
| 7                | 4                            | 37 | 56               | 139586            | 23               |
| 8                | 4                            | 26 | 44               | 139476            | 22               |
| 9                | 4                            | 15 | 25               | 139371            | 21               |
| 10               | 4                            | 3  | 59               | 139270            | 20               |
| 11               | 3                            | 52 | 27               | 139174            | 19               |
| 12               | 3                            | 40 | 49               | 139082            | 18               |
| 13               | 3                            | 29 | 5                | 138995            | 17               |
| 14               | 3                            | 17 | 16               | 138912            | 16               |
| 15               | 3                            | 5  | 22               | 138834            | 15               |
| 16               | 3                            | 53 | 23               | 138760            | 14               |
| 17               | 2                            | 41 | 20               | 138691            | 13               |
| 18               | 2                            | 29 | 13               | 138626            | 12               |
| 19               | 2                            | 17 | 2                | 138566            | 11               |
| 20               | 2                            | 4  | 47               | 138510            | 10               |
| 21               | 1                            | 52 | 28               | 138459            | 9                |
| 22               | 1                            | 40 | 5                | 138413            | 8                |
| 23               | 1                            | 27 | 39               | 138372            | 7                |
| 24               | 1                            | 15 | 11               | 138336            | 6                |
| 25               | 1                            | 2  | 41               | 138306            | 5                |
| 26               | 0                            | 50 | 10               | 138281            | 4                |
| 27               | 0                            | 37 | 39               | 138262            | 3                |
| 28               | 0                            | 25 | 7                | 138248            | 2                |
| 29               | 0                            | 12 | 34               | 138239            | 1                |
| 30               | 0                            | 0  | 0                | 138235            | 0                |
| trici            | Adde                         | A  |                  | A                 | trici            |
| 6 Signa          |                              |    |                  |                   |                  |



| O vel 6 Signa Distantiæ à Ω  |                  |           |                    |       |                          |                            |    |    |    |    |    |    |    |           |
|------------------------------|------------------|-----------|--------------------|-------|--------------------------|----------------------------|----|----|----|----|----|----|----|-----------|
| Distantia<br>S               | Anom. Eccē.<br>S | Distantia | Inclinatio<br>loci |       | Aquat.<br>loci Ecc.<br>S | Anomalie Eccentrici Signa. |    |    |    |    |    |    |    | Distantia |
|                              |                  |           | P                  | "     |                          | O                          | I  | 2  | 3  | 4  | 5  | O  |    |           |
|                              |                  |           | "                  | "     |                          | "                          | "  | "  | "  | "  | "  | "  | "  |           |
| 141                          | 30               | 0         | 0                  | 0     | 0                        | 0                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 30        |
| 137                          | 29               | 1         | 0                  | 1 55  | 2                        | 0                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 29        |
| 133                          | 28               | 2         | 0                  | 3 51  | 4                        | 0                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 28        |
| 128                          | 27               | 3         | 0                  | 5 47  | 6                        | 1                          | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 27        |
| 124                          | 26               | 4         | 0                  | 7 42  | 8                        | 1                          | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 26        |
| 119                          | 25               | 5         | 0                  | 9 38  | 10                       | 1                          | 1  | 1  | 2  | 1  | 1  | 1  | 1  | 25        |
| 115                          | 24               | 6         | 0                  | 11 33 | 12                       | 2                          | 2  | 2  | 2  | 2  | 2  | 2  | 1  | 24        |
| 110                          | 23               | 7         | 0                  | 13 28 | 14                       | 2                          | 2  | 2  | 2  | 2  | 2  | 2  | 2  | 23        |
| 105                          | 22               | 8         | 0                  | 15 22 | 16                       | 3                          | 3  | 3  | 3  | 2  | 2  | 2  | 2  | 22        |
| 101                          | 21               | 9         | 0                  | 17 17 | 17                       | 3                          | 3  | 3  | 4  | 3  | 3  | 3  | 3  | 21        |
| 96                           | 20               | 10        | 0                  | 19 11 | 19                       | 4                          | 4  | 4  | 4  | 3  | 3  | 3  | 3  | 20        |
| 92                           | 19               | 11        | 0                  | 21 5  | 21                       | 4                          | 4  | 4  | 4  | 4  | 4  | 4  | 4  | 19        |
| 87                           | 18               | 12        | 0                  | 22 58 | 23                       | 5                          | 5  | 5  | 5  | 4  | 4  | 4  | 4  | 18        |
| 83                           | 17               | 13        | 0                  | 24 51 | 25                       | 5                          | 5  | 5  | 5  | 5  | 5  | 5  | 5  | 17        |
| 78                           | 16               | 14        | 0                  | 26 44 | 26                       | 6                          | 6  | 6  | 6  | 5  | 5  | 5  | 5  | 16        |
| 74                           | 15               | 15        | 0                  | 28 36 | 28                       | 7                          | 7  | 7  | 6  | 6  | 6  | 6  | 6  | 15        |
| 69                           | 14               | 16        | 0                  | 30 27 | 29                       | 7                          | 7  | 7  | 7  | 6  | 6  | 6  | 6  | 14        |
| 65                           | 13               | 17        | 0                  | 32 18 | 31                       | 8                          | 8  | 8  | 7  | 7  | 7  | 7  | 7  | 13        |
| 60                           | 12               | 18        | 0                  | 34 8  | 32                       | 8                          | 8  | 8  | 8  | 7  | 7  | 7  | 7  | 12        |
| 56                           | 11               | 19        | 0                  | 35 57 | 34                       | 9                          | 9  | 9  | 9  | 8  | 8  | 8  | 8  | 11        |
| 51                           | 10               | 20        | 0                  | 37 46 | 35                       | 10                         | 10 | 10 | 9  | 9  | 8  | 8  | 8  | 10        |
| 46                           | 9                | 21        | 0                  | 39 34 | 36                       | 11                         | 11 | 11 | 10 | 10 | 9  | 9  | 9  | 9         |
| 41                           | 8                | 22        | 0                  | 41 22 | 38                       | 12                         | 12 | 12 | 11 | 11 | 10 | 10 | 10 | 8         |
| 36                           | 7                | 23        | 0                  | 43 9  | 39                       | 13                         | 13 | 13 | 12 | 12 | 11 | 11 | 11 | 7         |
| 30                           | 6                | 24        | 0                  | 44 55 | 40                       | 14                         | 14 | 14 | 13 | 13 | 12 | 12 | 12 | 6         |
| 25                           | 5                | 25        | 0                  | 46 40 | 41                       | 16                         | 15 | 15 | 14 | 14 | 13 | 13 | 13 | 5         |
| 19                           | 4                | 26        | 0                  | 48 24 | 42                       | 17                         | 17 | 16 | 15 | 15 | 14 | 14 | 14 | 4         |
| 14                           | 3                | 27        | 0                  | 50 8  | 44                       | 18                         | 17 | 17 | 16 | 16 | 15 | 15 | 15 | 3         |
| 9                            | 2                | 28        | 0                  | 51 52 | 45                       | 21                         | 18 | 19 | 18 | 17 | 16 | 16 | 16 | 2         |
| 4                            | 1                | 29        | 0                  | 53 32 | 46                       | 21                         | 19 | 20 | 19 | 18 | 17 | 17 | 17 | 1         |
| A                            | 0                | 30        | 0                  | 55 13 | 47                       | 22                         | 21 | 21 | 20 | 19 | 18 | 18 | 18 | 0         |
|                              |                  | Ω         |                    |       | A                        | 12                         | 11 | 10 | 9  | 8  | 7  | 6  |    | Ω         |
| 5 vel 11 Signa Distantiæ à Ω |                  |           |                    |       |                          |                            |    |    |    |    |    |    |    |           |

| Distantia                    | I vel 7 Signa Distantia à Ω |                           |                            |    |    |     |    |    |    |     |    | Distantia |
|------------------------------|-----------------------------|---------------------------|----------------------------|----|----|-----|----|----|----|-----|----|-----------|
|                              | Inclinatio<br>loci          | Aequat.<br>loci Ecc.<br>S | Anomalia Eccentrici Signa. |    |    |     |    |    |    |     |    |           |
|                              |                             |                           | P                          | I  | II | III | IV | V  | VI | VII |    |           |
|                              |                             |                           |                            |    |    |     |    |    |    |     | 0  |           |
| 0                            | 0                           | 55                        | 13                         | 47 | 22 | 21  | 21 | 20 | 19 | 18  | 18 | 30        |
| 1                            | 0                           | 56                        | 52                         | 48 | 24 | 23  | 22 | 21 | 20 | 19  | 19 | 29        |
| 2                            | 0                           | 58                        | 30                         | 49 | 25 | 24  | 23 | 22 | 21 | 20  | 20 | 28        |
| 3                            | 1                           | 0                         | 8                          | 50 | 26 | 27  | 24 | 23 | 22 | 21  | 21 | 27        |
| 4                            | 1                           | 1                         | 45                         | 50 | 28 | 27  | 25 | 25 | 24 | 23  | 22 | 26        |
| 5                            | 1                           | 3                         | 20                         | 51 | 29 | 28  | 27 | 26 | 25 | 24  | 23 | 25        |
| 6                            | 1                           | 4                         | 55                         | 51 | 30 | 29  | 28 | 27 | 26 | 25  | 24 | 24        |
| 7                            | 1                           | 6                         | 28                         | 52 | 32 | 31  | 30 | 29 | 27 | 26  | 25 | 23        |
| 8                            | 1                           | 7                         | 59                         | 52 | 33 | 32  | 31 | 30 | 29 | 27  | 26 | 22        |
| 9                            | 1                           | 9                         | 20                         | 53 | 34 | 33  | 32 | 31 | 30 | 28  | 28 | 21        |
| 10                           | 1                           | 10                        | 58                         | 53 | 35 | 34  | 33 | 32 | 31 | 30  | 29 | 20        |
| 11                           | 1                           | 12                        | 26                         | 53 | 37 | 36  | 35 | 34 | 33 | 32  | 31 | 19        |
| 12                           | 1                           | 13                        | 53                         | 53 | 38 | 37  | 36 | 35 | 34 | 33  | 32 | 18        |
| 13                           | 1                           | 15                        | 18                         | 54 | 40 | 39  | 38 | 36 | 35 | 34  | 33 | 17        |
| 14                           | 1                           | 16                        | 42                         | 54 | 41 | 41  | 40 | 38 | 37 | 35  | 35 | 16        |
| 15                           | 1                           | 18                        | 5                          | 54 | 43 | 42  | 41 | 39 | 38 | 37  | 36 | 15        |
| 16                           | 1                           | 19                        | 26                         | 54 | 44 | 43  | 42 | 40 | 39 | 38  | 37 | 14        |
| 17                           | 1                           | 20                        | 45                         | 53 | 46 | 45  | 44 | 42 | 41 | 40  | 39 | 13        |
| 18                           | 1                           | 22                        | 3                          | 53 | 47 | 47  | 45 | 43 | 42 | 41  | 40 | 12        |
| 19                           | 1                           | 23                        | 21                         | 53 | 48 | 47  | 46 | 44 | 43 | 42  | 41 | 11        |
| 20                           | 1                           | 24                        | 36                         | 52 | 50 | 49  | 48 | 46 | 45 | 43  | 42 | 10        |
| 21                           | 1                           | 25                        | 49                         | 52 | 51 | 50  | 49 | 47 | 46 | 44  | 43 | 9         |
| 22                           | 1                           | 27                        | 1                          | 52 | 53 | 51  | 50 | 48 | 47 | 46  | 45 | 8         |
| 23                           | 1                           | 28                        | 12                         | 51 | 54 | 53  | 51 | 50 | 48 | 47  | 46 | 7         |
| 24                           | 1                           | 29                        | 21                         | 51 | 56 | 54  | 53 | 51 | 50 | 48  | 47 | 6         |
| 25                           | 1                           | 30                        | 28                         | 50 | 57 | 56  | 54 | 53 | 51 | 50  | 48 | 5         |
| 26                           | 1                           | 31                        | 33                         | 50 | 59 | 57  | 56 | 54 | 53 | 51  | 50 | 4         |
| 27                           | 1                           | 32                        | 37                         | 49 | 60 | 59  | 57 | 56 | 54 | 52  | 51 | 3         |
| 28                           | 1                           | 33                        | 39                         | 48 | 62 | 61  | 59 | 57 | 55 | 53  | 52 | 2         |
| 29                           | 1                           | 34                        | 40                         | 47 | 63 | 62  | 60 | 59 | 57 | 54  | 53 | 1         |
| 30                           | 1                           | 35                        | 38                         | 46 | 65 | 64  | 62 | 60 | 58 | 56  | 54 | 0         |
| Ω                            |                             |                           | A                          | 12 | 11 | 10  | 9  | 8  | 7  | 6   |    | Ω         |
| 4 vel 10 Signa Distantia à Ω |                             |                           |                            |    |    |     |    |    |    |     |    |           |



| Distantia |    | 2 vel 8 Signa Distantiæ à ♄ |                 |       |                    |                            |    |    |    |    |    | Distantia |           |
|-----------|----|-----------------------------|-----------------|-------|--------------------|----------------------------|----|----|----|----|----|-----------|-----------|
|           |    | Distantia                   | Inclinatio loci |       | Aquat. loci Ecc. S | Anomalie Eccentrici Signa. |    |    |    |    |    |           | Distantia |
|           |    |                             | P               | "     |                    | 0                          | 1  | 2  | 3  | 4  | 5  | 6         |           |
| 8         | 30 | 0                           | 1               | 35 38 | 46                 | 65                         | 64 | 62 | 60 | 58 | 56 | 54        | 30        |
| 9         | 29 | 1                           | 1               | 36 34 | 45                 | 67                         | 65 | 63 | 61 | 59 | 57 | 55        | 29        |
| 10        | 28 | 2                           | 1               | 37 29 | 44                 | 67                         | 66 | 64 | 62 | 60 | 58 | 56        | 28        |
| 11        | 27 | 3                           | 1               | 38 22 | 43                 | 69                         | 67 | 65 | 63 | 61 | 59 | 57        | 27        |
| 12        | 26 | 4                           | 1               | 39 14 | 42                 | 70                         | 68 | 66 | 64 | 62 | 60 | 58        | 26        |
| 13        | 25 | 5                           | 1               | 40 4  | 41                 | 71                         | 69 | 67 | 65 | 63 | 61 | 59        | 25        |
| 14        | 24 | 6                           | 1               | 40 52 | 38                 | 72                         | 70 | 68 | 66 | 64 | 62 | 60        | 24        |
| 15        | 23 | 7                           | 1               | 41 38 | 38                 | 73                         | 71 | 69 | 67 | 65 | 63 | 61        | 23        |
| 16        | 22 | 8                           | 1               | 42 23 | 37                 | 74                         | 72 | 70 | 68 | 66 | 64 | 62        | 22        |
| 18        | 21 | 9                           | 1               | 43 6  | 35                 | 75                         | 73 | 71 | 69 | 67 | 65 | 62        | 21        |
| 19        | 20 | 10                          | 1               | 43 46 | 34                 | 76                         | 74 | 72 | 70 | 68 | 65 | 63        | 20        |
| 21        | 19 | 11                          | 1               | 44 24 | 33                 | 77                         | 75 | 73 | 71 | 69 | 66 | 64        | 19        |
| 22        | 18 | 12                          | 1               | 45 0  | 31                 | 78                         | 76 | 74 | 71 | 69 | 66 | 64        | 18        |
| 23        | 17 | 13                          | 1               | 45 35 | 30                 | 79                         | 77 | 75 | 73 | 70 | 67 | 65        | 17        |
| 25        | 16 | 14                          | 1               | 46 8  | 29                 | 79                         | 78 | 76 | 74 | 71 | 68 | 65        | 16        |
| 26        | 15 | 15                          | 1               | 46 39 | 27                 | 80                         | 78 | 77 | 75 | 72 | 69 | 66        | 15        |
| 27        | 14 | 16                          | 1               | 47 8  | 25                 | 81                         | 79 | 77 | 75 | 72 | 69 | 67        | 14        |
| 29        | 13 | 17                          | 1               | 47 35 | 24                 | 82                         | 80 | 78 | 76 | 73 | 70 | 67        | 13        |
| 30        | 12 | 18                          | 1               | 48 0  | 22                 | 82                         | 80 | 78 | 76 | 73 | 70 | 68        | 12        |
| 31        | 11 | 19                          | 1               | 48 23 | 20                 | 83                         | 81 | 79 | 77 | 74 | 71 | 68        | 11        |
| 32        | 10 | 20                          | 1               | 48 45 | 19                 | 84                         | 82 | 80 | 77 | 74 | 71 | 69        | 10        |
| 33        | 9  | 21                          | 1               | 49 4  | 17                 | 84                         | 82 | 80 | 77 | 75 | 72 | 69        | 9         |
| 34        | 8  | 22                          | 1               | 49 21 | 15                 | 85                         | 83 | 81 | 78 | 75 | 72 | 70        | 8         |
| 35        | 7  | 23                          | 1               | 49 36 | 13                 | 85                         | 83 | 81 | 78 | 75 | 72 | 70        | 7         |
| 36        | 6  | 24                          | 1               | 49 49 | 12                 | 86                         | 83 | 81 | 79 | 76 | 73 | 71        | 6         |
| 37        | 5  | 25                          | 1               | 50 0  | 10                 | 86                         | 84 | 82 | 79 | 76 | 73 | 71        | 5         |
| 38        | 4  | 26                          | 1               | 50 19 | 8                  | 86                         | 84 | 82 | 79 | 76 | 73 | 71        | 4         |
| 39        | 3  | 27                          | 1               | 50 16 | 6                  | 86                         | 85 | 83 | 79 | 77 | 74 | 72        | 3         |
| 40        | 2  | 28                          | 1               | 50 21 | 4                  | 86                         | 85 | 83 | 80 | 77 | 74 | 72        | 2         |
| 41        | 1  | 29                          | 1               | 50 24 | 2                  | 86                         | 85 | 83 | 80 | 77 | 74 | 72        | 1         |
| 42        | 0  | 30                          | 1               | 50 25 | 0                  | 86                         | 85 | 83 | 80 | 77 | 74 | 72        | 0         |
| 43        | ♄  | A                           |                 |       |                    | 12                         | 11 | 10 | 9  | 8  | 7  | 6         | ♄         |

| Distantia |    | 3 vel 9 Signa Distantiæ à ♄ |                 |       |                    |                            |    |    |    |    |    | Distantia |           |
|-----------|----|-----------------------------|-----------------|-------|--------------------|----------------------------|----|----|----|----|----|-----------|-----------|
|           |    | Distantia                   | Inclinatio loci |       | Aquat. loci Ecc. S | Anomalie Eccentrici Signa. |    |    |    |    |    |           | Distantia |
|           |    |                             | P               | "     |                    | 0                          | 1  | 2  | 3  | 4  | 5  | 6         |           |
| 8         | 30 | 0                           | 1               | 35 38 | 46                 | 65                         | 64 | 62 | 60 | 58 | 56 | 54        | 30        |
| 9         | 29 | 1                           | 1               | 36 34 | 45                 | 67                         | 65 | 63 | 61 | 59 | 57 | 55        | 29        |
| 10        | 28 | 2                           | 1               | 37 29 | 44                 | 67                         | 66 | 64 | 62 | 60 | 58 | 56        | 28        |
| 11        | 27 | 3                           | 1               | 38 22 | 43                 | 69                         | 67 | 65 | 63 | 61 | 59 | 57        | 27        |
| 12        | 26 | 4                           | 1               | 39 14 | 42                 | 70                         | 68 | 66 | 64 | 62 | 60 | 58        | 26        |
| 13        | 25 | 5                           | 1               | 40 4  | 41                 | 71                         | 69 | 67 | 65 | 63 | 61 | 59        | 25        |
| 14        | 24 | 6                           | 1               | 40 52 | 38                 | 72                         | 70 | 68 | 66 | 64 | 62 | 60        | 24        |
| 15        | 23 | 7                           | 1               | 41 38 | 38                 | 73                         | 71 | 69 | 67 | 65 | 63 | 61        | 23        |
| 16        | 22 | 8                           | 1               | 42 23 | 37                 | 74                         | 72 | 70 | 68 | 66 | 64 | 62        | 22        |
| 18        | 21 | 9                           | 1               | 43 6  | 35                 | 75                         | 73 | 71 | 69 | 67 | 65 | 62        | 21        |
| 19        | 20 | 10                          | 1               | 43 46 | 34                 | 76                         | 74 | 72 | 70 | 68 | 65 | 63        | 20        |
| 21        | 19 | 11                          | 1               | 44 24 | 33                 | 77                         | 75 | 73 | 71 | 69 | 66 | 64        | 19        |
| 22        | 18 | 12                          | 1               | 45 0  | 31                 | 78                         | 76 | 74 | 71 | 69 | 66 | 64        | 18        |
| 23        | 17 | 13                          | 1               | 45 35 | 30                 | 79                         | 77 | 75 | 73 | 70 | 67 | 65        | 17        |
| 25        | 16 | 14                          | 1               | 46 8  | 29                 | 79                         | 78 | 76 | 74 | 71 | 68 | 65        | 16        |
| 26        | 15 | 15                          | 1               | 46 39 | 27                 | 80                         | 78 | 77 | 75 | 72 | 69 | 66        | 15        |
| 27        | 14 | 16                          | 1               | 47 8  | 25                 | 81                         | 79 | 77 | 75 | 72 | 69 | 67        | 14        |
| 29        | 13 | 17                          | 1               | 47 35 | 24                 | 82                         | 80 | 78 | 76 | 73 | 70 | 67        | 13        |
| 30        | 12 | 18                          | 1               | 48 0  | 22                 | 82                         | 80 | 78 | 76 | 73 | 70 | 68        | 12        |
| 31        | 11 | 19                          | 1               | 48 23 | 20                 | 83                         | 81 | 79 | 77 | 74 | 71 | 68        | 11        |
| 32        | 10 | 20                          | 1               | 48 45 | 19                 | 84                         | 82 | 80 | 77 | 74 | 71 | 69        | 10        |
| 33        | 9  | 21                          | 1               | 49 4  | 17                 | 84                         | 82 | 80 | 77 | 75 | 72 | 69        | 9         |
| 34        | 8  | 22                          | 1               | 49 21 | 15                 | 85                         | 83 | 81 | 78 | 75 | 72 | 70        | 8         |
| 35        | 7  | 23                          | 1               | 49 36 | 13                 | 85                         | 83 | 81 | 78 | 75 | 72 | 70        | 7         |
| 36        | 6  | 24                          | 1               | 49 49 | 12                 | 86                         | 83 | 81 | 79 | 76 | 73 | 71        | 6         |
| 37        | 5  | 25                          | 1               | 50 0  | 10                 | 86                         | 84 | 82 | 79 | 76 | 73 | 71        | 5         |
| 38        | 4  | 26                          | 1               | 50 19 | 8                  | 86                         | 84 | 82 | 79 | 76 | 73 | 71        | 4         |
| 39        | 3  | 27                          | 1               | 50 16 | 6                  | 86                         | 85 | 83 | 79 | 77 | 74 | 72        | 3         |
| 40        | 2  | 28                          | 1               | 50 21 | 4                  | 86                         | 85 | 83 | 80 | 77 | 74 | 72        | 2         |
| 41        | 1  | 29                          | 1               | 50 24 | 2                  | 86                         | 85 | 83 | 80 | 77 | 74 | 72        | 1         |
| 42        | 0  | 30                          | 1               | 50 25 | 0                  | 86                         | 85 | 83 | 80 | 77 | 74 | 72        | 0         |
| 43        | ♄  | A                           |                 |       |                    | 12                         | 11 | 10 | 9  | 8  | 7  | 6         | ♄         |

3 vel 9 Signa Distantiæ à ♄

M 2





T A B V L A E  
A E Q V A L I V M,  
S E V M E D I O R V M  
M O T V V M

☿, ♀, ♄, & ☽ Tychoni-Copernicæ,

*Unà cum Tabulis Aequationum eorundem Planetarum  
secundum Copernicanas Observationes,*

In nouam formam redactis

PER IO. ANT. MAGINVM PATAVINVM  
MATHEMATICAS BONONIAE  
PROFITENTEM.

| Anni   | Apogæi ꝑ<br>ab Aequin. |    |    |    | Longit. ꝑ<br>ab Aequin. |    |    |    | Anni   | Apogæi ꝑ<br>ab Aequin. |    |    |    | Longit. ꝑ<br>ab Aequin. |    |    |    |
|--------|------------------------|----|----|----|-------------------------|----|----|----|--------|------------------------|----|----|----|-------------------------|----|----|----|
|        | S                      | P  | I  | II | S                       | P  | I  | II |        | S                      | P  | I  | II | S                       | P  | I  | II |
| B 1500 | 8                      | 27 | 8  | 38 | 2                       | 5  | 16 | 18 | 1534   | 8                      | 27 | 58 | 20 | 4                       | 1  | 15 | 23 |
| 1501   | 8                      | 27 | 10 | 6  | 2                       | 17 | 29 | 55 | 1535   | 8                      | 27 | 59 | 48 | 4                       | 13 | 31 | 0  |
| 1502   | 8                      | 27 | 11 | 34 | 2                       | 29 | 43 | 33 | B 1536 | 8                      | 28 | 1  | 16 | 4                       | 25 | 44 | 37 |
| 1503   | 8                      | 27 | 13 | 1  | 3                       | 11 | 57 | 10 | 1537   | 8                      | 28 | 2  | 43 | 5                       | 7  | 58 | 14 |
| B 1504 | 8                      | 27 | 14 | 29 | 3                       | 24 | 12 | 47 | 1538   | 8                      | 28 | 4  | 11 | 5                       | 20 | 11 | 51 |
| 1505   | 8                      | 27 | 15 | 57 | 4                       | 6  | 26 | 24 | 1539   | 8                      | 28 | 5  | 39 | 6                       | 2  | 25 | 28 |
| 1506   | 8                      | 27 | 17 | 24 | 4                       | 18 | 40 | 1  | B 1540 | 8                      | 28 | 7  | 6  | 6                       | 14 | 41 | 5  |
| 1507   | 8                      | 27 | 18 | 52 | 5                       | 0  | 53 | 39 | 1541   | 8                      | 28 | 8  | 34 | 6                       | 26 | 54 | 42 |
| B 1508 | 8                      | 27 | 20 | 20 | 5                       | 13 | 9  | 16 | 1542   | 8                      | 28 | 10 | 2  | 7                       | 9  | 8  | 20 |
| 1509   | 8                      | 27 | 21 | 47 | 5                       | 25 | 22 | 53 | 1543   | 8                      | 28 | 11 | 29 | 7                       | 21 | 21 | 57 |
| 1510   | 8                      | 27 | 23 | 15 | 6                       | 7  | 36 | 30 | B 1544 | 8                      | 28 | 12 | 57 | 8                       | 3  | 37 | 34 |
| 1511   | 8                      | 27 | 24 | 43 | 6                       | 19 | 50 | 8  | 1545   | 8                      | 28 | 14 | 25 | 8                       | 15 | 51 | 11 |
| B 1512 | 8                      | 27 | 26 | 11 | 7                       | 2  | 5  | 45 | 1546   | 8                      | 28 | 15 | 52 | 8                       | 28 | 4  | 49 |
| 1513   | 8                      | 27 | 27 | 38 | 7                       | 14 | 19 | 22 | 1547   | 8                      | 28 | 17 | 20 | 9                       | 10 | 18 | 26 |
| 1514   | 8                      | 27 | 29 | 6  | 7                       | 26 | 32 | 59 | B 1548 | 8                      | 28 | 18 | 48 | 9                       | 22 | 34 | 3  |
| 1515   | 8                      | 27 | 30 | 34 | 8                       | 8  | 46 | 36 | 1549   | 8                      | 28 | 20 | 15 | 10                      | 4  | 47 | 40 |
| B 1516 | 8                      | 27 | 32 | 2  | 8                       | 21 | 2  | 14 | 1550   | 8                      | 28 | 21 | 43 | 10                      | 17 | 1  | 18 |
| 1517   | 8                      | 27 | 33 | 29 | 9                       | 3  | 15 | 51 | 1551   | 8                      | 28 | 23 | 11 | 10                      | 29 | 14 | 55 |
| 1518   | 8                      | 27 | 34 | 57 | 9                       | 15 | 29 | 28 | B 1552 | 8                      | 28 | 24 | 39 | 11                      | 11 | 30 | 32 |
| 1519   | 8                      | 27 | 36 | 25 | 9                       | 27 | 43 | 5  | 1553   | 8                      | 28 | 26 | 6  | 11                      | 23 | 44 | 9  |
| B 1520 | 8                      | 27 | 37 | 52 | 10                      | 9  | 58 | 42 | 1554   | 8                      | 28 | 27 | 34 | 0                       | 5  | 57 | 46 |
| 1521   | 8                      | 27 | 39 | 20 | 10                      | 22 | 12 | 20 | 1555   | 8                      | 28 | 29 | 2  | 0                       | 18 | 11 | 23 |
| 1522   | 8                      | 27 | 40 | 48 | 11                      | 4  | 25 | 57 | B 1556 | 8                      | 28 | 30 | 29 | 1                       | 0  | 27 | 0  |
| 1523   | 8                      | 27 | 42 | 15 | 11                      | 16 | 39 | 34 | 1557   | 8                      | 28 | 31 | 57 | 1                       | 12 | 40 | 38 |
| B 1524 | 8                      | 27 | 43 | 43 | 11                      | 28 | 55 | 11 | 1558   | 8                      | 28 | 33 | 25 | 1                       | 24 | 54 | 15 |
| 1525   | 8                      | 27 | 45 | 11 | 0                       | 11 | 8  | 48 | 1559   | 8                      | 28 | 34 | 52 | 2                       | 7  | 7  | 52 |
| 1526   | 8                      | 27 | 46 | 38 | 0                       | 23 | 22 | 26 | B 1560 | 8                      | 28 | 36 | 20 | 2                       | 19 | 23 | 29 |
| 1527   | 8                      | 27 | 48 | 6  | 1                       | 5  | 36 | 3  | 1561   | 8                      | 28 | 37 | 47 | 3                       | 1  | 37 | 7  |
| B 1528 | 8                      | 27 | 49 | 34 | 1                       | 17 | 51 | 40 | 1562   | 8                      | 28 | 39 | 15 | 3                       | 13 | 50 | 44 |
| 1529   | 8                      | 27 | 51 | 1  | 2                       | 0  | 5  | 17 | 1563   | 8                      | 28 | 40 | 43 | 3                       | 26 | 4  | 21 |
| 1530   | 8                      | 27 | 52 | 29 | 2                       | 12 | 18 | 54 | B 1564 | 8                      | 28 | 42 | 11 | 4                       | 8  | 19 | 58 |
| 1531   | 8                      | 27 | 53 | 57 | 2                       | 24 | 32 | 31 | 1565   | 8                      | 28 | 43 | 38 | 4                       | 20 | 33 | 35 |
| B 1532 | 8                      | 27 | 55 | 25 | 3                       | 6  | 48 | 8  | 1566   | 8                      | 28 | 45 | 6  | 5                       | 2  | 47 | 12 |
| 1533   | 8                      | 27 | 56 | 52 | 3                       | 19 | 1  | 46 | 1567   | 8                      | 28 | 46 | 34 | 5                       | 15 | 0  | 49 |



# Ac Tab. Secundorum Mobilium.

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Radices Aequalium motuum H Tychoni-Copernicæ.

| Longit. H<br>ab Acquin. |    |    |    |
|-------------------------|----|----|----|
| S                       | P  | I  | II |
| 4                       | 1  | 15 | 23 |
| 4                       | 13 | 31 | 0  |
| 4                       | 25 | 44 | 37 |
| 5                       | 7  | 58 | 14 |
| 5                       | 20 | 11 | 51 |
| 6                       | 2  | 25 | 28 |
| 6                       | 14 | 41 | 5  |
| 6                       | 26 | 54 | 42 |
| 7                       | 9  | 8  | 20 |
| 7                       | 21 | 21 | 57 |
| 8                       | 3  | 37 | 34 |
| 8                       | 15 | 51 | 11 |
| 8                       | 28 | 4  | 49 |
| 9                       | 10 | 18 | 26 |
| 9                       | 22 | 34 | 3  |
| 10                      | 4  | 47 | 40 |
| 10                      | 17 | 1  | 18 |
| 10                      | 29 | 14 | 55 |
| 11                      | 11 | 30 | 32 |
| 11                      | 23 | 44 | 9  |
| 0                       | 5  | 57 | 46 |
| 0                       | 18 | 11 | 23 |
| 1                       | 0  | 27 | 0  |
| 1                       | 12 | 40 | 38 |
| 1                       | 24 | 54 | 15 |
| 2                       | 7  | 7  | 52 |
| 2                       | 19 | 23 | 29 |
| 3                       | 1  | 37 | 7  |
| 3                       | 13 | 50 | 44 |
| 3                       | 26 | 4  | 21 |
| 4                       | 8  | 19 | 58 |
| 4                       | 20 | 33 | 35 |
| 5                       | 2  | 47 | 12 |
| 5                       | 15 | 0  | 49 |

| Apogæi H<br>ab Acquin.        |   |    |    |    | Longit. H<br>ab Acquin. |    |    |    | Apogæi H<br>ab Acquin. |   |    |    |    | Longit. H<br>ab Acquin. |    |    |    |
|-------------------------------|---|----|----|----|-------------------------|----|----|----|------------------------|---|----|----|----|-------------------------|----|----|----|
| Anni                          | S | P  | i  | u  | S                       | P  | i  | u  | Anni                   | S | P  | i  | u  | S                       | P  | i  | u  |
| 1567                          | 8 | 28 | 46 | 34 | 5                       | 15 | 0  | 49 | 1599                   | 8 | 29 | 33 | 20 | 6                       | 16 | 12 | 35 |
| B 1568                        | 8 | 28 | 48 | 2  | 5                       | 27 | 16 | 26 | B 1600                 | 8 | 29 | 34 | 48 | 6                       | 28 | 28 | 12 |
| 1569                          | 8 | 28 | 49 | 29 | 6                       | 9  | 30 | 3  | 1601                   | 8 | 29 | 36 | 16 | 7                       | 10 | 41 | 50 |
| 1570                          | 8 | 28 | 50 | 57 | 6                       | 21 | 43 | 41 | 1602                   | 8 | 29 | 37 | 44 | 7                       | 22 | 55 | 27 |
| 1571                          | 8 | 28 | 52 | 25 | 7                       | 3  | 57 | 18 | 1603                   | 8 | 29 | 39 | 11 | 8                       | 5  | 9  | 4  |
| B 1572                        | 8 | 28 | 53 | 53 | 7                       | 19 | 12 | 55 | B 1604                 | 8 | 29 | 40 | 39 | 8                       | 17 | 24 | 42 |
| 1573                          | 8 | 28 | 55 | 20 | 7                       | 28 | 26 | 32 | 1605                   | 8 | 29 | 42 | 7  | 8                       | 29 | 38 | 19 |
| 1574                          | 8 | 28 | 56 | 48 | 8                       | 10 | 40 | 9  | 1606                   | 8 | 29 | 43 | 34 | 9                       | 11 | 51 | 56 |
| 1575                          | 8 | 28 | 58 | 16 | 8                       | 22 | 53 | 46 | 1607                   | 8 | 29 | 45 | 2  | 9                       | 24 | 5  | 33 |
| B 1576                        | 8 | 28 | 59 | 43 | 9                       | 5  | 9  | 23 | B 1608                 | 8 | 29 | 46 | 30 | 10                      | 6  | 21 | 10 |
| 1577                          | 8 | 29 | 1  | 11 | 9                       | 17 | 23 | 1  | 1609                   | 8 | 29 | 47 | 57 | 10                      | 18 | 34 | 47 |
| 1578                          | 8 | 29 | 2  | 39 | 9                       | 29 | 36 | 38 | 1610                   | 8 | 29 | 49 | 25 | 11                      | 0  | 48 | 25 |
| 1579                          | 8 | 29 | 4  | 6  | 10                      | 11 | 50 | 15 | 1611                   | 8 | 29 | 50 | 53 | 11                      | 13 | 2  | 2  |
| B 1580                        | 8 | 29 | 5  | 34 | 10                      | 24 | 5  | 32 | B 1612                 | 8 | 29 | 52 | 41 | 11                      | 25 | 17 | 39 |
| 1581                          | 8 | 29 | 7  | 2  | 11                      | 6  | 19 | 29 | 1613                   | 8 | 29 | 53 | 48 | 0                       | 7  | 31 | 16 |
| 1582                          | 8 | 29 | 8  | 29 | 11                      | 18 | 13 | 7  | 1614                   | 8 | 29 | 55 | 16 | 0                       | 19 | 44 | 53 |
| Radices in Annis Gregorianis. |   |    |    |    |                         |    |    |    |                        |   |    |    |    |                         |    |    |    |
| 1583                          | 8 | 29 | 9  | 57 | 0                       | 0  | 26 | 40 | 1615                   | 8 | 29 | 56 | 44 | 1                       | 1  | 58 | 30 |
| B 1584                        | 8 | 29 | 17 | 25 | 0                       | 12 | 42 | 18 | B 1616                 | 8 | 29 | 58 | 11 | 1                       | 14 | 14 | 7  |
| 1585                          | 8 | 29 | 12 | 52 | 0                       | 24 | 55 | 55 | 1617                   | 8 | 29 | 59 | 39 | 1                       | 26 | 27 | 44 |
| 1586                          | 8 | 29 | 14 | 20 | 1                       | 7  | 9  | 39 | 1618                   | 9 | 0  | 1  | 7  | 2                       | 8  | 41 | 22 |
| 1587                          | 8 | 29 | 15 | 48 | 1                       | 19 | 23 | 9  | 1619                   | 9 | 0  | 2  | 34 | 2                       | 20 | 54 | 59 |
| B 1588                        | 8 | 29 | 17 | 16 | 2                       | 1  | 38 | 46 | B 1620                 | 9 | 0  | 4  | 2  | 3                       | 9  | 10 | 36 |
| 1589                          | 8 | 29 | 18 | 43 | 2                       | 13 | 52 | 23 | 1621                   | 9 | 0  | 5  | 30 | 3                       | 15 | 24 | 13 |
| 1590                          | 8 | 29 | 20 | 11 | 2                       | 26 | 6  | 0  | 1622                   | 9 | 0  | 6  | 58 | 3                       | 27 | 37 | 50 |
| 1591                          | 9 | 29 | 21 | 39 | 3                       | 8  | 19 | 37 | 1623                   | 9 | 0  | 8  | 25 | 4                       | 9  | 51 | 27 |
| B 1592                        | 8 | 29 | 23 | 6  | 3                       | 20 | 35 | 14 | B 1624                 | 9 | 0  | 9  | 53 | 4                       | 22 | 7  | 4  |
| 1593                          | 8 | 29 | 24 | 34 | 4                       | 2  | 48 | 51 | 1625                   | 9 | 0  | 11 | 21 | 5                       | 4  | 20 | 41 |
| 1594                          | 8 | 29 | 26 | 2  | 4                       | 15 | 2  | 29 | 1626                   | 9 | 0  | 12 | 49 | 5                       | 16 | 34 | 19 |
| 1595                          | 8 | 29 | 27 | 29 | 4                       | 27 | 16 | 6  | 1627                   | 9 | 0  | 14 | 16 | 5                       | 28 | 47 | 56 |
| B 1596                        | 8 | 29 | 28 | 57 | 5                       | 9  | 31 | 43 | B 1628                 | 9 | 0  | 15 | 44 | 6                       | 11 | 3  | 33 |
| 1597                          | 8 | 29 | 30 | 25 | 5                       | 21 | 45 | 20 | 1629                   | 9 | 0  | 17 | 12 | 6                       | 23 | 17 | 10 |
| 1598                          | 8 | 29 | 31 | 53 | 6                       | 3  | 58 | 58 | 1630                   | 9 | 0  | 18 | 39 | 7                       | 5  | 30 | 47 |
|                               |   |    |    |    |                         |    |    |    | 1631                   | 9 | 0  | 20 | 7  | 7                       | 17 | 44 | 24 |
|                               |   |    |    |    |                         |    |    |    | B 1632                 | 9 | 0  | 21 | 35 | 8                       | 0  | 0  | 2  |

M 4



| Anni   | Apogæi $\mathcal{H}$<br>ab Acquin. |   |    |    | Longit. $\mathcal{H}$<br>ab Acquin. |    |    |    | Anni   | Apogæi $\mathcal{H}$<br>ab Acquin. |   |    |    | Longit. $\mathcal{H}$<br>ab Acquin. |    |    |    |
|--------|------------------------------------|---|----|----|-------------------------------------|----|----|----|--------|------------------------------------|---|----|----|-------------------------------------|----|----|----|
|        | S                                  | P | i  | u  | S                                   | P  | i  | u  |        | S                                  | P | i  | u  | S                                   | P  | i  | u  |
| 1633   | 9                                  | 0 | 23 | 2  | 8                                   | 12 | 13 | 39 | 1667   | 9                                  | 1 | 12 | 44 | 10                                  | 8  | 12 | 42 |
| 1634   | 9                                  | 0 | 24 | 30 | 8                                   | 24 | 27 | 16 | B 1668 | 9                                  | 1 | 14 | 12 | 10                                  | 20 | 28 | 20 |
| 1635   | 9                                  | 0 | 25 | 58 | 9                                   | 6  | 40 | 54 | 1669   | 9                                  | 1 | 15 | 39 | 11                                  | 2  | 41 | 55 |
| B 1636 | 9                                  | 0 | 27 | 26 | 9                                   | 18 | 56 | 31 | 1670   | 9                                  | 1 | 17 | 7  | 11                                  | 14 | 55 | 34 |
| 1637   | 9                                  | 0 | 28 | 53 | 10                                  | 1  | 10 | 8  | 1671   | 9                                  | 1 | 18 | 35 | 11                                  | 27 | 9  | 11 |
| 1638   | 9                                  | 0 | 30 | 21 | 10                                  | 13 | 23 | 47 | B 1672 | 9                                  | 1 | 20 | 3  | 0                                   | 9  | 24 | 49 |
| 1639   | 9                                  | 0 | 31 | 49 | 10                                  | 25 | 37 | 22 | 1673   | 9                                  | 1 | 21 | 30 | 0                                   | 21 | 38 | 26 |
| B 1640 | 9                                  | 0 | 33 | 16 | 11                                  | 7  | 52 | 59 | 1674   | 9                                  | 1 | 22 | 58 | 1                                   | 3  | 52 | 3  |
| 1641   | 9                                  | 0 | 34 | 44 | 11                                  | 20 | 6  | 37 | 1675   | 9                                  | 1 | 24 | 26 | 1                                   | 16 | 5  | 40 |
| 1642   | 9                                  | 0 | 36 | 12 | 0                                   | 2  | 20 | 14 | B 1676 | 9                                  | 1 | 25 | 53 | 1                                   | 28 | 21 | 17 |
| 1643   | 9                                  | 0 | 37 | 39 | 0                                   | 14 | 33 | 51 | 1677   | 9                                  | 1 | 27 | 21 | 2                                   | 10 | 34 | 54 |
| B 1644 | 9                                  | 0 | 39 | 7  | 0                                   | 26 | 49 | 28 | 1678   | 9                                  | 1 | 28 | 49 | 2                                   | 22 | 48 | 32 |
| 1645   | 9                                  | 0 | 40 | 35 | 1                                   | 9  | 3  | 6  | 1679   | 9                                  | 1 | 30 | 16 | 3                                   | 5  | 2  | 8  |
| 1646   | 9                                  | 0 | 42 | 3  | 1                                   | 21 | 16 | 43 | B 1680 | 9                                  | 1 | 31 | 44 | 3                                   | 17 | 17 | 46 |
| 1647   | 9                                  | 0 | 43 | 30 | 2                                   | 3  | 30 | 20 | 1681   | 9                                  | 1 | 33 | 12 | 3                                   | 29 | 31 | 23 |
| B 1648 | 9                                  | 0 | 44 | 58 | 2                                   | 15 | 45 | 57 | 1682   | 9                                  | 1 | 34 | 40 | 4                                   | 11 | 45 | 1  |
| 1649   | 9                                  | 0 | 46 | 26 | 2                                   | 27 | 59 | 34 | 1683   | 9                                  | 1 | 36 | 7  | 4                                   | 23 | 58 | 37 |
| 1650   | 9                                  | 0 | 47 | 53 | 2                                   | 10 | 13 | 11 | B 1684 | 9                                  | 1 | 37 | 35 | 5                                   | 6  | 14 | 15 |
| 1651   | 9                                  | 0 | 49 | 21 | 3                                   | 22 | 26 | 48 | 1685   | 9                                  | 1 | 39 | 3  | 5                                   | 18 | 27 | 52 |
| B 1652 | 9                                  | 0 | 50 | 49 | 4                                   | 4  | 42 | 26 | 1686   | 9                                  | 1 | 40 | 31 | 6                                   | 0  | 41 | 30 |
| 1653   | 9                                  | 0 | 52 | 16 | 4                                   | 16 | 56 | 3  | 1687   | 9                                  | 1 | 41 | 58 | 6                                   | 12 | 55 | 6  |
| 1654   | 9                                  | 0 | 53 | 44 | 4                                   | 29 | 9  | 40 | B 1688 | 9                                  | 1 | 43 | 26 | 6                                   | 25 | 10 | 44 |
| 1655   | 9                                  | 0 | 55 | 12 | 5                                   | 11 | 23 | 17 | 1689   | 9                                  | 1 | 44 | 54 | 7                                   | 7  | 24 | 21 |
| B 1656 | 9                                  | 0 | 56 | 40 | 5                                   | 23 | 38 | 55 | 1690   | 9                                  | 1 | 46 | 21 | 7                                   | 19 | 37 | 57 |
| 1657   | 9                                  | 0 | 58 | 7  | 6                                   | 5  | 52 | 32 | 1691   | 9                                  | 1 | 47 | 49 | 8                                   | 1  | 51 | 33 |
| 1658   | 9                                  | 0 | 59 | 35 | 6                                   | 18 | 6  | 9  | B 1692 | 9                                  | 1 | 49 | 17 | 8                                   | 14 | 7  | 13 |
| 1659   | 9                                  | 1 | 1  | 3  | 7                                   | 0  | 19 | 46 | 1693   | 9                                  | 1 | 50 | 44 | 8                                   | 26 | 20 | 49 |
| B 1660 | 9                                  | 1 | 2  | 30 | 7                                   | 12 | 35 | 23 | 1694   | 9                                  | 1 | 52 | 12 | 9                                   | 8  | 34 | 26 |
| 1661   | 9                                  | 1 | 3  | 58 | 7                                   | 24 | 49 | 0  | 1695   | 9                                  | 1 | 53 | 40 | 9                                   | 20 | 48 | 4  |
| 1662   | 9                                  | 1 | 5  | 26 | 8                                   | 7  | 2  | 37 | B 1696 | 9                                  | 1 | 55 | 8  | 10                                  | 3  | 3  | 41 |
| 1663   | 9                                  | 1 | 6  | 53 | 8                                   | 19 | 16 | 14 | 1697   | 9                                  | 1 | 56 | 35 | 10                                  | 15 | 17 | 18 |
| B 1664 | 9                                  | 1 | 8  | 21 | 9                                   | 1  | 31 | 51 | 1698   | 9                                  | 1 | 58 | 3  | 10                                  | 27 | 30 | 55 |
| 1665   | 9                                  | 1 | 9  | 49 | 9                                   | 13 | 45 | 28 | 1699   | 9                                  | 1 | 59 | 31 | 11                                  | 9  | 44 | 33 |
| 1666   | 9                                  | 1 | 11 | 17 | 9                                   | 25 | 59 | 6  | B 1700 | 9                                  | 2 | 0  | 58 | 11                                  | 21 | 58 | 9  |



| Longit. H<br>ab Aequin. |    |    |    |
|-------------------------|----|----|----|
| S                       | P  | i  | a  |
| 10                      | 8  | 12 | 42 |
| 10                      | 20 | 28 | 10 |
| 11                      | 2  | 41 | 55 |
| 11                      | 14 | 55 | 34 |
| 11                      | 27 | 9  | 11 |
| 0                       | 9  | 24 | 49 |
| 0                       | 21 | 38 | 26 |
| 1                       | 3  | 52 | 3  |
| 1                       | 16 | 5  | 17 |
| 1                       | 28 | 21 | 40 |
| 2                       | 10 | 34 | 54 |
| 2                       | 22 | 48 | 32 |
| 3                       | 5  | 2  | 8  |
| 3                       | 17 | 17 | 46 |
| 3                       | 29 | 31 | 23 |
| 4                       | 11 | 45 | 1  |
| 4                       | 23 | 58 | 37 |
| 5                       | 6  | 14 | 15 |
| 5                       | 18 | 27 | 52 |
| 6                       | 0  | 41 | 30 |
| 6                       | 12 | 55 | 6  |
| 6                       | 25 | 10 | 44 |
| 7                       | 7  | 24 | 21 |
| 7                       | 19 | 37 | 57 |
| 8                       | 1  | 51 | 33 |
| 8                       | 14 | 7  | 13 |
| 8                       | 26 | 20 | 49 |
| 9                       | -8 | 34 | 26 |
| 9                       | 20 | 48 | 4  |
| 10                      | 3  | 3  | 41 |
| 10                      | 15 | 17 | 18 |
| 10                      | 27 | 30 | 55 |
| 11                      | 9  | 44 | 33 |
| 11                      | 21 | 58 | 9  |

| Anni communis |   |   |   |    |           |    |    |    | In diebus |   |   |   |    |           |   |    |    |    |
|---------------|---|---|---|----|-----------|----|----|----|-----------|---|---|---|----|-----------|---|----|----|----|
| Apogæi        |   |   |   |    | Longitud. |    |    |    | Apogæi    |   |   |   |    | Longitud. |   |    |    |    |
|               | S | P | i | u  | S         | P  | i  | u  | Dies      | P | i | u | m  | S         | P | i  | u  | m  |
| Januarius     | 0 | 0 | 0 | 7  | 0         | 1  | 2  | 18 | 1         | 0 | 0 | 0 | 14 | 0         | 0 | 2  | 1  | 1  |
| Februar.      | 0 | 0 | 0 | 14 | 0         | 1  | 58 | 35 | 2         | 0 | 0 | 0 | 28 | 0         | 0 | 4  | 1  | 1  |
| Martius       | 0 | 0 | 0 | 22 | 0         | 3  | 0  | 54 | 3         | 0 | 0 | 0 | 43 | 0         | 0 | 6  | 2  | 2  |
| Aprilis       | 0 | 0 | 0 | 29 | 0         | 4  | 1  | 12 | 4         | 0 | 0 | 0 | 57 | 0         | 0 | 8  | 2  | 2  |
| Maius         | 0 | 0 | 0 | 36 | 0         | 5  | 3  | 36 | 5         | 0 | 0 | 1 | 12 | 0         | 0 | 10 | 3  | 3  |
| Iunius        | 0 | 0 | 0 | 43 | 0         | 6  | 5  | 48 | 6         | 0 | 0 | 1 | 26 | 0         | 0 | 12 | 4  | 4  |
| Iulius        | 0 | 0 | 0 | 51 | 0         | 7  | 6  | 6  | 7         | 0 | 0 | 1 | 41 | 0         | 0 | 14 | 4  | 4  |
| Augustus      | 0 | 0 | 0 | 58 | 0         | 8  | 8  | 25 | 8         | 0 | 0 | 1 | 55 | 0         | 0 | 16 | 5  | 5  |
| Septemb.      | 0 | 0 | 1 | 5  | 0         | 9  | 8  | 42 | 9         | 0 | 0 | 2 | 10 | 0         | 0 | 18 | 5  | 5  |
| October       | 0 | 0 | 1 | 13 | 0         | 10 | 11 | 1  | 10        | 0 | 0 | 2 | 24 | 0         | 0 | 20 | 6  | 6  |
| Novemb.       | 0 | 0 | 1 | 21 | 0         | 11 | 11 | 19 | 11        | 0 | 0 | 2 | 35 | 0         | 0 | 22 | 7  | 7  |
| Decemb.       | 0 | 0 | 1 | 28 | 0         | 12 | 13 | 38 | 12        | 0 | 0 | 3 | 8  | 0         | 0 | 26 | 8  | 8  |
|               |   |   |   |    |           |    |    |    | 14        | 0 | 0 | 3 | 22 | 0         | 0 | 28 | 8  | 8  |
|               |   |   |   |    |           |    |    |    | 15        | 0 | 0 | 3 | 36 | 0         | 0 | 30 | 9  | 9  |
|               |   |   |   |    |           |    |    |    | 16        | 0 | 0 | 3 | 51 | 0         | 0 | 32 | 10 | 10 |
|               |   |   |   |    |           |    |    |    | 17        | 0 | 0 | 4 | 5  | 0         | 0 | 34 | 10 | 10 |
|               |   |   |   |    |           |    |    |    | 18        | 0 | 0 | 4 | 20 | 0         | 0 | 36 | 11 | 11 |
|               |   |   |   |    |           |    |    |    | 19        | 0 | 0 | 4 | 34 | 0         | 0 | 38 | 11 | 11 |
|               |   |   |   |    |           |    |    |    | 20        | 0 | 0 | 4 | 48 | 0         | 0 | 40 | 12 | 12 |
|               |   |   |   |    |           |    |    |    | 21        | 0 | 0 | 5 | 3  | 0         | 0 | 42 | 13 | 13 |
|               |   |   |   |    |           |    |    |    | 22        | 0 | 0 | 5 | 17 | 0         | 0 | 44 | 13 | 13 |
|               |   |   |   |    |           |    |    |    | 23        | 0 | 0 | 5 | 32 | 0         | 0 | 46 | 14 | 14 |
|               |   |   |   |    |           |    |    |    | 24        | 0 | 0 | 5 | 46 | 0         | 0 | 48 | 14 | 14 |
|               |   |   |   |    |           |    |    |    | 25        | 0 | 0 | 6 | 0  | 0         | 0 | 50 | 15 | 15 |
|               |   |   |   |    |           |    |    |    | 26        | 0 | 0 | 6 | 14 | 0         | 0 | 52 | 15 | 15 |
|               |   |   |   |    |           |    |    |    | 27        | 0 | 0 | 6 | 28 | 0         | 0 | 54 | 16 | 16 |
|               |   |   |   |    |           |    |    |    | 28        | 0 | 0 | 6 | 43 | 0         | 0 | 56 | 17 | 17 |
|               |   |   |   |    |           |    |    |    | 29        | 0 | 0 | 6 | 57 | 0         | 0 | 58 | 17 | 17 |
|               |   |   |   |    |           |    |    |    | 30        | 0 | 0 | 7 | 12 | 0         | 1 | 0  | 18 | 18 |
|               |   |   |   |    |           |    |    |    | 31        | 0 | 0 | 7 | 26 | 0         | 1 | 2  | 18 | 18 |

| Anni Biflexilis |   |   |   |    |   |    |    |    |
|-----------------|---|---|---|----|---|----|----|----|
|                 | S | P | i | u  | S | P  | i  | u  |
| Januarius       | 0 | 0 | 0 | 7  | 0 | 1  | 2  | 18 |
| Februar.        | 0 | 0 | 0 | 14 | 0 | 2  | 0  | 35 |
| Martius         | 0 | 0 | 0 | 22 | 0 | 3  | 2  | 54 |
| Aprilis         | 0 | 0 | 0 | 29 | 0 | 4  | 3  | 12 |
| Maius           | 0 | 0 | 0 | 36 | 0 | 5  | 5  | 30 |
| Iunius          | 0 | 0 | 0 | 43 | 0 | 6  | 5  | 48 |
| Iulius          | 0 | 0 | 0 | 51 | 0 | 7  | 8  | 7  |
| Augustus        | 0 | 0 | 0 | 58 | 0 | 8  | 10 | 25 |
| Septemb.        | 0 | 0 | 1 | 5  | 0 | 9  | 10 | 43 |
| October         | 0 | 0 | 1 | 13 | 0 | 10 | 13 | 1  |
| Novemb.         | 0 | 0 | 1 | 21 | 0 | 11 | 13 | 19 |
| Decemb.         | 0 | 0 | 1 | 28 | 0 | 12 | 15 | 38 |

| Longitudi-<br>nis $\mathcal{H}$ |   |    |     |     | Longitudi-<br>nis $\mathcal{H}$ |   |    |     |     |
|---------------------------------|---|----|-----|-----|---------------------------------|---|----|-----|-----|
| Hor.                            | S | P  | i   | ''  | Min.                            | S | P  | i   | ''  |
| Min.                            | P | i  | ''  | ''' | Sec.                            | P | i  | ''  | ''' |
| Sec.                            | i | '' | ''' | ''' | Sec.                            | i | '' | ''' | ''' |
| 1                               | 0 | 0  | 0   | 5   | 31                              | 0 | 0  | 2   | 36  |
| 2                               | 0 | 0  | 0   | 10  | 32                              | 0 | 0  | 2   | 41  |
| 3                               | 0 | 0  | 0   | 15  | 33                              | 0 | 0  | 2   | 46  |
| 4                               | 0 | 0  | 0   | 20  | 34                              | 0 | 0  | 2   | 51  |
| 5                               | 0 | 0  | 0   | 25  | 35                              | 0 | 0  | 2   | 56  |
| 6                               | 0 | 0  | 0   | 30  | 36                              | 0 | 0  | 3   | 1   |
| 7                               | 0 | 0  | 0   | 35  | 37                              | 0 | 0  | 3   | 6   |
| 8                               | 0 | 0  | 0   | 40  | 38                              | 0 | 0  | 3   | 11  |
| 9                               | 0 | 0  | 0   | 45  | 39                              | 0 | 0  | 3   | 16  |
| 10                              | 0 | 0  | 0   | 50  | 40                              | 0 | 0  | 3   | 21  |
| 11                              | 0 | 0  | 0   | 55  | 41                              | 0 | 0  | 3   | 26  |
| 12                              | 0 | 0  | 1   | 0   | 42                              | 0 | 0  | 3   | 31  |
| 13                              | 0 | 0  | 1   | 5   | 43                              | 0 | 0  | 3   | 36  |
| 14                              | 0 | 0  | 1   | 10  | 44                              | 0 | 0  | 3   | 41  |
| 15                              | 0 | 0  | 1   | 15  | 45                              | 0 | 0  | 3   | 46  |
| 16                              | 0 | 0  | 1   | 20  | 46                              | 0 | 0  | 3   | 51  |
| 17                              | 0 | 0  | 1   | 25  | 47                              | 0 | 0  | 3   | 56  |
| 18                              | 0 | 0  | 1   | 30  | 48                              | 0 | 0  | 4   | 1   |
| 19                              | 0 | 0  | 1   | 35  | 49                              | 0 | 0  | 4   | 6   |
| 20                              | 0 | 0  | 1   | 41  | 50                              | 0 | 0  | 4   | 11  |
| 21                              | 0 | 0  | 1   | 45  | 51                              | 0 | 0  | 4   | 16  |
| 22                              | 0 | 0  | 1   | 51  | 52                              | 0 | 0  | 4   | 21  |
| 23                              | 0 | 0  | 1   | 56  | 53                              | 0 | 0  | 4   | 26  |
| 24                              | 0 | 0  | 2   | 1   | 54                              | 0 | 0  | 4   | 31  |
| 25                              | 0 | 0  | 2   | 6   | 55                              | 0 | 0  | 4   | 36  |
| 26                              | 0 | 0  | 2   | 11  | 56                              | 0 | 0  | 4   | 41  |
| 27                              | 0 | 0  | 2   | 16  | 57                              | 0 | 0  | 4   | 46  |
| 28                              | 0 | 0  | 2   | 21  | 58                              | 0 | 0  | 4   | 51  |
| 29                              | 0 | 0  | 2   | 26  | 59                              | 0 | 0  | 4   | 56  |
| 30                              | 0 | 0  | 2   | 31  | 60                              | 0 | 0  | 5   | 1   |



| Longitudi-<br>nis ꝑ |   |    |     |
|---------------------|---|----|-----|
| P                   | I | II | III |
| 1                   | 1 | 1  | 1   |
| 0                   | 2 | 36 |     |
| 0                   | 2 | 41 |     |
| 0                   | 2 | 46 |     |
| 0                   | 2 | 51 |     |
| 0                   | 2 | 56 |     |
| 0                   | 3 | 1  |     |
| 0                   | 3 | 6  |     |
| 0                   | 3 | 11 |     |
| 0                   | 3 | 16 |     |
| 0                   | 3 | 21 |     |
| 0                   | 3 | 26 |     |
| 0                   | 3 | 31 |     |
| 0                   | 3 | 36 |     |
| 0                   | 3 | 41 |     |
| 0                   | 3 | 46 |     |
| 0                   | 3 | 51 |     |
| 0                   | 3 | 56 |     |
| 0                   | 4 | 1  |     |
| 0                   | 4 | 6  |     |
| 0                   | 4 | 11 |     |
| 0                   | 4 | 16 |     |
| 0                   | 4 | 21 |     |
| 0                   | 4 | 26 |     |
| 0                   | 4 | 31 |     |
| 0                   | 4 | 36 |     |
| 0                   | 4 | 41 |     |
| 0                   | 4 | 46 |     |
| 0                   | 4 | 51 |     |
| 0                   | 4 | 56 |     |
| 0                   | 5 | 1  |     |

| Anni   | Apogæi ꝗ<br>ab Aequin. |   |    |    | Longitud.<br>ab Aequin. | Anni | Apogæi ꝗ<br>ab Aequin. |    |   |    | Longitud.<br>ab Aequin. |
|--------|------------------------|---|----|----|-------------------------|------|------------------------|----|---|----|-------------------------|
|        | S                      | P | I  | II |                         |      | S                      | P  | I | II |                         |
| B 1500 | 6                      | 5 | 17 | 38 | 0                       | 4    | 19                     | 54 |   |    |                         |
| 1501   | 6                      | 5 | 18 | 40 | 1                       | 4    | 40                     | 26 |   |    |                         |
| 1502   | 6                      | 5 | 19 | 42 | 2                       | 5    | 0                      | 58 |   |    |                         |
| 1503   | 6                      | 5 | 20 | 43 | 3                       | 5    | 21                     | 50 |   |    |                         |
| B 1502 | 6                      | 5 | 21 | 45 | 4                       | 5    | 47                     | 1  |   |    |                         |
| 1505   | 6                      | 5 | 22 | 47 | 5                       | 6    | 7                      | 33 |   |    |                         |
| 1506   | 6                      | 5 | 23 | 49 | 6                       | 6    | 28                     | 5  |   |    |                         |
| 1507   | 6                      | 5 | 24 | 51 | 7                       | 6    | 48                     | 37 |   |    |                         |
| B 1508 | 6                      | 5 | 25 | 53 | 8                       | 7    | 14                     | 9  |   |    |                         |
| 1509   | 6                      | 5 | 26 | 54 | 9                       | 7    | 30                     | 40 |   |    |                         |
| 1510   | 6                      | 5 | 27 | 56 | 10                      | 7    | 55                     | 12 |   |    |                         |
| 1511   | 6                      | 5 | 28 | 58 | 11                      | 8    | 15                     | 44 |   |    |                         |
| B 1512 | 6                      | 5 | 30 | 0  | 0                       | 8    | 41                     | 16 |   |    |                         |
| 1513   | 6                      | 5 | 31 | 2  | 1                       | 9    | 1                      | 48 |   |    |                         |
| 1514   | 6                      | 5 | 32 | 4  | 2                       | 9    | 22                     | 20 |   |    |                         |
| 1515   | 6                      | 5 | 33 | 5  | 3                       | 9    | 42                     | 52 |   |    |                         |
| B 1516 | 6                      | 5 | 34 | 7  | 4                       | 10   | 8                      | 24 |   |    |                         |
| 1517   | 6                      | 5 | 35 | 8  | 5                       | 10   | 28                     | 56 |   |    |                         |
| 1518   | 6                      | 5 | 36 | 11 | 6                       | 10   | 49                     | 28 |   |    |                         |
| 1519   | 6                      | 5 | 37 | 13 | 7                       | 11   | 10                     | 0  |   |    |                         |
| B 1520 | 6                      | 5 | 38 | 15 | 8                       | 11   | 35                     | 32 |   |    |                         |
| 1521   | 6                      | 5 | 39 | 16 | 9                       | 11   | 56                     | 3  |   |    |                         |
| 1522   | 6                      | 5 | 40 | 18 | 10                      | 12   | 16                     | 35 |   |    |                         |
| 1523   | 6                      | 5 | 41 | 20 | 11                      | 12   | 37                     | 7  |   |    |                         |
| B 1524 | 6                      | 5 | 42 | 22 | 0                       | 13   | 2                      | 39 |   |    |                         |
| 1525   | 6                      | 5 | 43 | 24 | 1                       | 13   | 23                     | 11 |   |    |                         |
| 1526   | 6                      | 5 | 44 | 26 | 2                       | 13   | 43                     | 43 |   |    |                         |
| 1527   | 6                      | 5 | 45 | 27 | 3                       | 14   | 4                      | 14 |   |    |                         |
| B 1528 | 6                      | 5 | 46 | 29 | 4                       | 14   | 29                     | 46 |   |    |                         |
| 1529   | 6                      | 5 | 47 | 31 | 5                       | 14   | 50                     | 18 |   |    |                         |
| 1530   | 6                      | 5 | 48 | 33 | 6                       | 15   | 10                     | 50 |   |    |                         |
| 1531   | 6                      | 5 | 49 | 35 | 7                       | 15   | 31                     | 22 |   |    |                         |
| B 1532 | 6                      | 5 | 50 | 36 | 8                       | 15   | 56                     | 54 |   |    |                         |
| 1533   | 6                      | 5 | 51 | 38 | 9                       | 16   | 17                     | 26 |   |    |                         |
| 1534   | 6                      | 5 | 52 | 40 | 10                      | 16   | 37                     | 58 |   |    |                         |
| 1535   | 6                      | 5 | 53 | 42 | 11                      | 16   | 58                     | 30 |   |    |                         |
| B 1536 | 6                      | 5 | 54 | 44 | 0                       | 17   | 24                     | 2  |   |    |                         |
| 1537   | 6                      | 5 | 55 | 46 | 1                       | 17   | 44                     | 34 |   |    |                         |
| 1538   | 6                      | 5 | 56 | 48 | 2                       | 18   | 5                      | 6  |   |    |                         |
| 1539   | 6                      | 5 | 57 | 50 | 3                       | 18   | 25                     | 38 |   |    |                         |
| B 1540 | 6                      | 5 | 58 | 52 | 4                       | 18   | 51                     | 10 |   |    |                         |
| 1541   | 6                      | 5 | 59 | 53 | 5                       | 19   | 11                     | 42 |   |    |                         |
| 1542   | 6                      | 6 | 0  | 55 | 6                       | 19   | 32                     | 14 |   |    |                         |
| 1543   | 6                      | 6 | 1  | 57 | 7                       | 19   | 52                     | 45 |   |    |                         |
| B 1544 | 6                      | 6 | 2  | 59 | 8                       | 20   | 18                     | 17 |   |    |                         |
| 1545   | 6                      | 6 | 4  | 0  | 9                       | 20   | 38                     | 49 |   |    |                         |
| 1546   | 6                      | 6 | 5  | 2  | 10                      | 20   | 59                     | 21 |   |    |                         |
| 1547   | 6                      | 6 | 6  | 4  | 11                      | 21   | 19                     | 53 |   |    |                         |
| B 1548 | 6                      | 6 | 7  | 6  | 0                       | 21   | 45                     | 25 |   |    |                         |
| 1549   | 6                      | 6 | 8  | 8  | 1                       | 22   | 5                      | 17 |   |    |                         |
| 1550   | 6                      | 6 | 9  | 10 | 2                       | 22   | 26                     | 29 |   |    |                         |
| 1551   | 6                      | 6 | 10 | 12 | 3                       | 22   | 49                     | 1  |   |    |                         |
| B 1552 | 6                      | 6 | 11 | 14 | 4                       | 23   | 12                     | 33 |   |    |                         |
| 1553   | 6                      | 6 | 12 | 15 | 5                       | 23   | 33                     | 4  |   |    |                         |
| 1554   | 6                      | 6 | 13 | 17 | 6                       | 23   | 53                     | 36 |   |    |                         |
| 1555   | 6                      | 6 | 14 | 19 | 7                       | 24   | 14                     | 8  |   |    |                         |
| B 1556 | 6                      | 6 | 15 | 21 | 8                       | 24   | 39                     | 40 |   |    |                         |
| 1557   | 6                      | 6 | 16 | 23 | 9                       | 25   | 0                      | 12 |   |    |                         |
| 1558   | 6                      | 6 | 17 | 25 | 10                      | 25   | 20                     | 44 |   |    |                         |
| 1559   | 6                      | 6 | 18 | 27 | 11                      | 25   | 41                     | 16 |   |    |                         |
| B 1560 | 6                      | 6 | 19 | 29 | 0                       | 26   | 6                      | 48 |   |    |                         |
| 1561   | 6                      | 6 | 20 | 31 | 1                       | 26   | 27                     | 20 |   |    |                         |
| 1562   | 6                      | 6 | 21 | 33 | 2                       | 26   | 47                     | 52 |   |    |                         |
| 1563   | 6                      | 6 | 22 | 34 | 3                       | 27   | 8                      | 24 |   |    |                         |
| B 1564 | 6                      | 6 | 23 | 36 | 4                       | 27   | 33                     | 56 |   |    |                         |
| 1565   | 6                      | 6 | 24 | 38 | 5                       | 27   | 54                     | 28 |   |    |                         |
| 1566   | 6                      | 6 | 25 | 40 | 6                       | 28   | 15                     | 0  |   |    |                         |
| 1567   | 6                      | 6 | 26 | 42 | 7                       | 28   | 35                     | 31 |   |    |                         |

| Apogæi ꝑ<br>ab Aequin.        |   |   |    | Longitud.<br>ab Aequin. |    |    |    | Apogæi ꝑ<br>ab Aequin. |        |   |   | Longitud.<br>ab Aequin. |    |    |    |    |    |
|-------------------------------|---|---|----|-------------------------|----|----|----|------------------------|--------|---|---|-------------------------|----|----|----|----|----|
| Anni                          | S | P | I  | II                      | S  | P  | I  | II                     | Anni   | S | P | I                       | II | S  | P  | I  | II |
| 1567                          | 6 | 6 | 26 | 42                      | 7  | 28 | 35 | 31                     | 1599   | 6 | 6 | 59                      | 39 | 4  | 9  | 22 | 39 |
| B 1568                        | 6 | 6 | 27 | 44                      | 8  | 29 | 1  | 3                      | B 1600 | 6 | 7 | 0                       | 41 | 5  | 9  | 48 | 11 |
| 1569                          | 6 | 6 | 28 | 45                      | 9  | 29 | 21 | 35                     | 1601   | 6 | 7 | 1                       | 43 | 6  | 10 | 8  | 43 |
| 1570                          | 6 | 6 | 29 | 47                      | 10 | 29 | 42 | 7                      | 1602   | 6 | 7 | 2                       | 44 | 7  | 10 | 29 | 15 |
| 1571                          | 6 | 6 | 30 | 49                      | 0  | 0  | 2  | 39                     | 1603   | 6 | 7 | 3                       | 46 | 8  | 10 | 49 | 47 |
| B 1572                        | 6 | 6 | 31 | 51                      | 1  | 0  | 38 | 11                     | B 1604 | 6 | 7 | 4                       | 48 | 9  | 11 | 15 | 19 |
| 1573                          | 6 | 6 | 32 | 53                      | 2  | 0  | 48 | 43                     | 1605   | 6 | 7 | 5                       | 50 | 10 | 11 | 35 | 51 |
| 1574                          | 6 | 6 | 33 | 54                      | 3  | 1  | 9  | 15                     | 1606   | 6 | 7 | 6                       | 52 | 11 | 11 | 56 | 23 |
| 1575                          | 6 | 6 | 34 | 56                      | 4  | 1  | 29 | 47                     | 1607   | 6 | 7 | 7                       | 53 | 12 | 12 | 16 | 55 |
| B 1576                        | 6 | 6 | 35 | 57                      | 5  | 1  | 55 | 18                     | B 1608 | 6 | 7 | 8                       | 55 | 1  | 12 | 42 | 26 |
| 1577                          | 6 | 6 | 36 | 59                      | 6  | 2  | 15 | 50                     | 1609   | 6 | 7 | 9                       | 57 | 2  | 13 | 2  | 58 |
| 1578                          | 6 | 6 | 38 | 1                       | 7  | 2  | 36 | 22                     | 1610   | 6 | 7 | 10                      | 59 | 3  | 13 | 23 | 30 |
| 1579                          | 6 | 6 | 39 | 3                       | 8  | 2  | 56 | 54                     | 1611   | 6 | 7 | 12                      | 1  | 4  | 13 | 44 | 2  |
| B 1580                        | 6 | 6 | 40 | 4                       | 9  | 3  | 22 | 25                     | B 1612 | 6 | 7 | 13                      | 3  | 5  | 14 | 9  | 34 |
| 1581                          | 6 | 6 | 41 | 6                       | 10 | 3  | 42 | 58                     | 1613   | 6 | 7 | 14                      | 4  | 6  | 14 | 30 | 6  |
| 1582                          | 6 | 6 | 42 | 8                       | 11 | 4  | 3  | 29                     | 1614   | 6 | 7 | 15                      | 6  | 7  | 14 | 50 | 38 |
| Radices in Annis Gregorianis. |   |   |    |                         |    |    |    |                        |        |   |   |                         |    |    |    |    |    |
| 1583                          | 6 | 6 | 43 | 10                      | 0  | 3  | 34 | 10                     | 1615   | 6 | 7 | 16                      | 8  | 8  | 15 | 11 | 10 |
| B 1584                        | 6 | 6 | 44 | 11                      | 1  | 3  | 59 | 41                     | B 1616 | 6 | 7 | 17                      | 10 | 9  | 15 | 36 | 42 |
| 1585                          | 6 | 6 | 45 | 13                      | 2  | 4  | 20 | 13                     | 1617   | 6 | 7 | 18                      | 12 | 10 | 15 | 57 | 14 |
| 1586                          | 6 | 6 | 46 | 15                      | 3  | 4  | 40 | 44                     | 1618   | 6 | 7 | 19                      | 14 | 11 | 16 | 17 | 46 |
| 1587                          | 6 | 6 | 47 | 17                      | 4  | 5  | 1  | 16                     | 1619   | 6 | 7 | 20                      | 16 | 0  | 16 | 3  | 48 |
| B 1588                        | 6 | 6 | 48 | 19                      | 5  | 5  | 26 | 48                     | B 1620 | 6 | 7 | 21                      | 18 | 1  | 17 | 3  | 49 |
| 1589                          | 6 | 6 | 49 | 20                      | 6  | 5  | 47 | 20                     | 1621   | 6 | 7 | 22                      | 19 | 2  | 17 | 24 | 21 |
| 1590                          | 6 | 6 | 50 | 22                      | 7  | 6  | 7  | 52                     | 1622   | 6 | 7 | 23                      | 21 | 3  | 17 | 44 | 53 |
| 1591                          | 6 | 6 | 51 | 24                      | 8  | 6  | 28 | 24                     | 1623   | 6 | 7 | 24                      | 23 | 4  | 18 | 5  | 25 |
| B 1592                        | 6 | 6 | 52 | 26                      | 9  | 6  | 53 | 56                     | B 1624 | 6 | 7 | 25                      | 25 | 5  | 18 | 30 | 57 |
| 1593                          | 6 | 6 | 53 | 28                      | 10 | 7  | 14 | 28                     | 1625   | 6 | 7 | 26                      | 27 | 6  | 18 | 51 | 29 |
| 1594                          | 6 | 6 | 54 | 29                      | 11 | 7  | 35 | 0                      | 1626   | 6 | 7 | 27                      | 29 | 7  | 19 | 12 | 1  |
| 1595                          | 6 | 6 | 55 | 31                      | 0  | 7  | 55 | 32                     | 1627   | 6 | 7 | 28                      | 30 | 8  | 19 | 32 | 3  |
| B 1596                        | 6 | 6 | 56 | 33                      | 1  | 8  | 21 | 4                      | B 1628 | 6 | 7 | 29                      | 32 | 9  | 19 | 58 | 5  |
| 1597                          | 6 | 6 | 57 | 35                      | 2  | 8  | 41 | 35                     | 1629   | 6 | 7 | 30                      | 34 | 10 | 20 | 18 | 37 |
| 1598                          | 6 | 6 | 58 | 37                      | 3  | 9  | 2  | 7                      | 1630   | 6 | 7 | 31                      | 36 | 11 | 20 | 39 | 8  |
|                               |   |   |    |                         |    |    |    |                        | 1631   | 6 | 7 | 32                      | 38 | 0  | 21 | 0  | 40 |
|                               |   |   |    |                         |    |    |    |                        | B 1632 | 6 | 7 | 33                      | 40 | 1  | 21 | 26 | 12 |



## Radices Aequalium motuum ꝗ Tychoni-Copernicę.

| Longitud.<br>ab Aequin. |    |    |    |
|-------------------------|----|----|----|
| S                       | P  | i  | u  |
| 4                       | 9  | 22 | 39 |
| 5                       | 9  | 48 | 11 |
| 6                       | 10 | 8  | 43 |
| 7                       | 10 | 29 | 15 |
| 8                       | 10 | 49 | 47 |
| 9                       | 11 | 15 | 19 |
| 10                      | 11 | 35 | 51 |
| 11                      | 11 | 56 | 23 |
| 12                      | 12 | 16 | 55 |
| 1                       | 12 | 42 | 26 |
| 2                       | 13 | 2  | 58 |
| 3                       | 13 | 23 | 30 |
| 4                       | 13 | 44 | 2  |
| 5                       | 14 | 9  | 34 |
| 6                       | 14 | 30 | 6  |
| 7                       | 14 | 50 | 38 |
| 8                       | 15 | 11 | 10 |
| 9                       | 15 | 36 | 42 |
| 10                      | 15 | 57 | 14 |
| 11                      | 16 | 17 | 46 |
| 12                      | 16 | 38 | 18 |
| 1                       | 17 | 3  | 49 |
| 2                       | 17 | 24 | 21 |
| 3                       | 17 | 44 | 53 |
| 4                       | 18 | 5  | 25 |
| 5                       | 18 | 30 | 57 |
| 6                       | 18 | 51 | 29 |
| 7                       | 19 | 12 | 1  |
| 8                       | 19 | 32 | 3  |
| 9                       | 19 | 58 | 5  |
| 10                      | 20 | 18 | 37 |
| 11                      | 20 | 39 | 8  |
| 12                      | 21 | 0  | 40 |
| 1                       | 21 | 26 | 12 |

| Anni   | Apogæi ꝗ<br>ab Aequin. |   |    |    | Longitud.<br>ab Aequin. | Apogæi ꝗ<br>ab Aequin. |    |    |   | Longitud.<br>ab Aequin. |
|--------|------------------------|---|----|----|-------------------------|------------------------|----|----|---|-------------------------|
|        | S                      | P | i  | u  |                         | S                      | P  | i  | u |                         |
| 1633   | 6                      | 7 | 34 | 41 | 2                       | 21                     | 46 | 44 |   |                         |
| 1634   | 6                      | 7 | 35 | 43 | 3                       | 22                     | 7  | 16 |   |                         |
| 1635   | 6                      | 7 | 36 | 45 | 4                       | 22                     | 27 | 48 |   |                         |
| B 1636 | 6                      | 7 | 37 | 47 | 5                       | 22                     | 53 | 20 |   |                         |
| 1637   | 6                      | 7 | 38 | 49 | 6                       | 23                     | 13 | 52 |   |                         |
| 1638   | 6                      | 7 | 39 | 51 | 7                       | 23                     | 3  | 3  |   |                         |
| 1639   | 6                      | 7 | 40 | 52 | 8                       | 23                     | 54 | 55 |   |                         |
| B 1640 | 6                      | 7 | 41 | 54 | 9                       | 24                     | 19 | 27 |   |                         |
| 1641   | 6                      | 7 | 42 | 56 | 10                      | 24                     | 39 | 59 |   |                         |
| 1642   | 6                      | 7 | 43 | 58 | 11                      | 25                     | 0  | 31 |   |                         |
| 1643   | 6                      | 7 | 45 | 0  | 0                       | 25                     | 21 | 3  |   |                         |
| B 1644 | 6                      | 7 | 46 | 1  | 1                       | 25                     | 46 | 24 |   |                         |
| 1645   | 6                      | 7 | 47 | 3  | 2                       | 26                     | 7  | 6  |   |                         |
| 1646   | 6                      | 7 | 48 | 5  | 3                       | 26                     | 27 | 38 |   |                         |
| 1647   | 6                      | 7 | 49 | 7  | 4                       | 26                     | 48 | 40 |   |                         |
| B 1648 | 6                      | 7 | 50 | 9  | 5                       | 27                     | 12 | 42 |   |                         |
| 1649   | 6                      | 7 | 51 | 11 | 6                       | 27                     | 34 | 14 |   |                         |
| 1650   | 6                      | 7 | 52 | 13 | 7                       | 27                     | 54 | 46 |   |                         |
| 1651   | 6                      | 7 | 53 | 15 | 8                       | 28                     | 15 | 18 |   |                         |
| B 1652 | 6                      | 7 | 54 | 16 | 9                       | 28                     | 40 | 50 |   |                         |
| 1653   | 6                      | 7 | 55 | 18 | 10                      | 29                     | 1  | 21 |   |                         |
| 1654   | 6                      | 7 | 56 | 20 | 11                      | 29                     | 21 | 53 |   |                         |
| 1655   | 6                      | 7 | 57 | 22 | 0                       | 29                     | 42 | 25 |   |                         |
| B 1656 | 6                      | 7 | 58 | 24 | 2                       | 0                      | 7  | 57 |   |                         |
| 1657   | 6                      | 7 | 59 | 26 | 3                       | 0                      | 28 | 29 |   |                         |
| 1658   | 6                      | 8 | 0  | 28 | 4                       | 0                      | 49 | 1  |   |                         |
| 1659   | 6                      | 8 | 1  | 29 | 5                       | 1                      | 9  | 33 |   |                         |
| B 1660 | 6                      | 8 | 2  | 31 | 6                       | 1                      | 35 | 5  |   |                         |
| 1661   | 6                      | 8 | 3  | 33 | 7                       | 1                      | 55 | 37 |   |                         |
| 1662   | 6                      | 8 | 4  | 35 | 8                       | 2                      | 16 | 8  |   |                         |
| 1663   | 6                      | 8 | 5  | 37 | 9                       | 2                      | 36 | 40 |   |                         |
| B 1664 | 6                      | 8 | 6  | 39 | 10                      | 3                      | 2  | 12 |   |                         |
| 1665   | 6                      | 8 | 7  | 41 | 11                      | 3                      | 22 | 44 |   |                         |
| 1666   | 6                      | 8 | 8  | 43 | 0                       | 3                      | 43 | 16 |   |                         |
| 1667   | 6                      | 8 | 9  | 45 | 1                       | 4                      | 3  | 48 |   |                         |
| B 1668 | 6                      | 8 | 10 | 46 | 2                       | 4                      | 29 | 20 |   |                         |
| 1669   | 6                      | 8 | 11 | 48 | 3                       | 4                      | 49 | 52 |   |                         |
| 1670   | 6                      | 8 | 12 | 50 | 4                       | 5                      | 10 | 24 |   |                         |
| 1671   | 6                      | 8 | 13 | 52 | 5                       | 5                      | 30 | 56 |   |                         |
| B 1672 | 6                      | 8 | 14 | 53 | 6                       | 5                      | 56 | 27 |   |                         |
| 1673   | 6                      | 8 | 15 | 55 | 7                       | 6                      | 16 | 59 |   |                         |
| 1674   | 6                      | 8 | 16 | 57 | 8                       | 6                      | 37 | 31 |   |                         |
| 1675   | 6                      | 8 | 17 | 59 | 9                       | 6                      | 58 | 3  |   |                         |
| B 1676 | 6                      | 8 | 19 | 1  | 10                      | 7                      | 23 | 35 |   |                         |
| 1677   | 6                      | 8 | 20 | 3  | 11                      | 7                      | 44 | 7  |   |                         |
| 1678   | 6                      | 8 | 21 | 5  | 0                       | 8                      | 4  | 39 |   |                         |
| 1679   | 6                      | 8 | 22 | 6  | 1                       | 8                      | 25 | 11 |   |                         |
| B 1680 | 6                      | 8 | 23 | 8  | 2                       | 8                      | 50 | 43 |   |                         |
| 1681   | 6                      | 8 | 24 | 10 | 3                       | 9                      | 11 | 15 |   |                         |
| 1682   | 6                      | 8 | 25 | 12 | 4                       | 9                      | 31 | 47 |   |                         |
| 1683   | 6                      | 8 | 26 | 14 | 5                       | 9                      | 52 | 19 |   |                         |
| B 1684 | 6                      | 8 | 27 | 16 | 6                       | 10                     | 17 | 51 |   |                         |
| 1685   | 6                      | 8 | 28 | 18 | 7                       | 10                     | 38 | 23 |   |                         |
| 1686   | 6                      | 8 | 29 | 20 | 8                       | 10                     | 58 | 54 |   |                         |
| 1687   | 6                      | 8 | 30 | 21 | 9                       | 11                     | 19 | 26 |   |                         |
| B 1688 | 6                      | 8 | 31 | 23 | 10                      | 11                     | 44 | 58 |   |                         |
| 1689   | 6                      | 8 | 32 | 25 | 11                      | 12                     | 5  | 30 |   |                         |
| 1690   | 6                      | 8 | 33 | 27 | 0                       | 12                     | 26 | 2  |   |                         |
| 1691   | 6                      | 8 | 34 | 29 | 1                       | 12                     | 46 | 34 |   |                         |
| B 1692 | 6                      | 8 | 35 | 31 | 2                       | 13                     | 12 | 6  |   |                         |
| 1693   | 6                      | 8 | 36 | 33 | 3                       | 13                     | 32 | 38 |   |                         |
| 1694   | 6                      | 8 | 37 | 34 | 4                       | 13                     | 53 | 10 |   |                         |
| 1695   | 6                      | 8 | 38 | 36 | 5                       | 14                     | 13 | 42 |   |                         |
| B 1696 | 6                      | 8 | 39 | 38 | 6                       | 14                     | 39 | 14 |   |                         |
| 1697   | 6                      | 8 | 40 | 40 | 7                       | 14                     | 59 | 46 |   |                         |
| 1698   | 6                      | 8 | 41 | 41 | 8                       | 15                     | 20 | 18 |   |                         |
| 1699   | 6                      | 8 | 42 | 43 | 9                       | 15                     | 40 | 50 |   |                         |
| B 1700 | 6                      | 8 | 43 | 45 | 10                      | 16                     | 1  | 22 |   |                         |

| Anni communis |   |   |   |   |   |   |    |    | In diebus |   |   |   |   |   |   |   |   |        |   |   |   |   |   |   |   |   |           |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
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| Apogæi        |   |   |   |   |   |   |    |    | Longitud. |   |   |   |   |   |   |   |   | Apogæi |   |   |   |   |   |   |   |   | Longitud. |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| S P I "       |   |   |   |   |   |   |    |    | S P I "   |   |   |   |   |   |   |   |   | Dies   |   |   |   |   |   |   |   |   | S P I "   |   |   |   |   |   |   |   |   | S P I " |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| Ianuarius     | 0 | 0 | 0 | 5 | 0 | 2 | 34 | 37 | 1         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0      | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0         | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0       | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |  |



# Ac Tab. Secundorum Mobilium.

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Tabula Aequalium motuum  $\Upsilon$  in horis & minutis.

| Longitud. |   |    |    |
|-----------|---|----|----|
| S         | P | I  | "  |
| 0         | 0 | 4  | 59 |
| 0         | 0 | 9  | 58 |
| 0         | 0 | 14 | 58 |
| 0         | 0 | 19 | 57 |
| 0         | 0 | 24 | 56 |
| 0         | 0 | 29 | 56 |
| 0         | 0 | 34 | 55 |
| 0         | 0 | 39 | 54 |
| 0         | 0 | 44 | 54 |
| 0         | 0 | 49 | 53 |
| 0         | 0 | 54 | 52 |
| 0         | 0 | 59 | 51 |
| 0         | 1 | 4  | 51 |
| 0         | 1 | 9  | 50 |
| 0         | 1 | 14 | 49 |
| 0         | 1 | 19 | 48 |
| 0         | 1 | 24 | 47 |
| 0         | 1 | 29 | 47 |
| 0         | 1 | 34 | 46 |
| 0         | 1 | 39 | 45 |
| 0         | 1 | 44 | 45 |
| 0         | 1 | 49 | 44 |
| 0         | 1 | 54 | 43 |
| 0         | 1 | 59 | 42 |
| 0         | 2 | 4  | 41 |
| 0         | 2 | 9  | 41 |
| 0         | 2 | 14 | 40 |
| 0         | 2 | 19 | 39 |
| 0         | 2 | 24 | 39 |
| 0         | 2 | 29 | 38 |
| 0         | 2 | 34 | 37 |

| Hor. | Longitudi-<br>nis $\Upsilon$ |   |     |     |
|------|------------------------------|---|-----|-----|
|      | S                            | P | I   | "   |
|      | P                            | I | "   | ''' |
| Min. | P                            | I | "   | ''' |
| Sec. | I                            | " | ''' | ''' |
| 1    | 0                            | 0 | 0   | 12  |
| 2    | 0                            | 0 | 0   | 25  |
| 3    | 0                            | 0 | 0   | 37  |
| 4    | 0                            | 0 | 0   | 50  |
| 5    | 0                            | 0 | 1   | 2   |
| 6    | 0                            | 0 | 1   | 15  |
| 7    | 0                            | 0 | 1   | 27  |
| 8    | 0                            | 0 | 1   | 40  |
| 9    | 0                            | 0 | 1   | 52  |
| 10   | 0                            | 0 | 2   | 5   |
| 11   | 0                            | 0 | 2   | 17  |
| 12   | 0                            | 0 | 2   | 30  |
| 13   | 0                            | 0 | 2   | 42  |
| 14   | 0                            | 0 | 2   | 54  |
| 15   | 0                            | 0 | 3   | 7   |
| 16   | 0                            | 0 | 3   | 19  |
| 17   | 0                            | 0 | 3   | 32  |
| 18   | 0                            | 0 | 3   | 44  |
| 19   | 0                            | 0 | 3   | 57  |
| 20   | 0                            | 0 | 4   | 9   |
| 21   | 0                            | 0 | 4   | 22  |
| 22   | 0                            | 0 | 4   | 34  |
| 23   | 0                            | 0 | 4   | 47  |
| 24   | 0                            | 0 | 4   | 59  |
| 25   | 0                            | 0 | 5   | 12  |
| 26   | 0                            | 0 | 5   | 24  |
| 27   | 0                            | 0 | 5   | 37  |
| 28   | 0                            | 0 | 5   | 49  |
| 29   | 0                            | 0 | 6   | 1   |
| 30   | 0                            | 0 | 6   | 14  |

| Min. | Longitudi-<br>nis $\Upsilon$ |   |     |     |
|------|------------------------------|---|-----|-----|
|      | S                            | P | I   | "   |
|      | P                            | I | "   | ''' |
| Sec. | I                            | " | ''' | ''' |
| 31   | 0                            | 0 | 6   | 26  |
| 32   | 0                            | 0 | 6   | 39  |
| 33   | 0                            | 0 | 6   | 51  |
| 34   | 0                            | 0 | 7   | 4   |
| 35   | 0                            | 0 | 7   | 16  |
| 36   | 0                            | 0 | 7   | 29  |
| 37   | 0                            | 0 | 7   | 41  |
| 38   | 0                            | 0 | 7   | 54  |
| 39   | 0                            | 0 | 8   | 6   |
| 40   | 0                            | 0 | 8   | 19  |
| 41   | 0                            | 0 | 8   | 31  |
| 42   | 0                            | 0 | 8   | 43  |
| 43   | 0                            | 0 | 8   | 56  |
| 44   | 0                            | 0 | 9   | 8   |
| 45   | 0                            | 0 | 9   | 21  |
| 46   | 0                            | 0 | 9   | 33  |
| 47   | 0                            | 0 | 9   | 46  |
| 48   | 0                            | 0 | 9   | 58  |
| 49   | 0                            | 0 | 10  | 11  |
| 50   | 0                            | 0 | 10  | 23  |
| 51   | 0                            | 0 | 10  | 36  |
| 52   | 0                            | 0 | 10  | 48  |
| 53   | 0                            | 0 | 11  | 0   |
| 54   | 0                            | 0 | 11  | 12  |
| 55   | 0                            | 0 | 11  | 25  |
| 56   | 0                            | 0 | 11  | 38  |
| 57   | 0                            | 0 | 11  | 50  |
| 58   | 0                            | 0 | 12  | 3   |
| 59   | 0                            | 0 | 12  | 15  |
| 60   | 0                            | 0 | 12  | 28  |

| Apogæi ♀<br>ab Aequin. |   |    |    |    | Anom.com-<br>mutationis |    |    |    |  | Apogæi ♀<br>ab Aequin. |   |    |    |    | Anom.com-<br>mutationis |    |    |    |  |
|------------------------|---|----|----|----|-------------------------|----|----|----|--|------------------------|---|----|----|----|-------------------------|----|----|----|--|
| Anni                   | S | P  | i  | u  | S                       | P  | i  | u  |  | Anni                   | S | P  | i  | u  | S                       | P  | i  | u  |  |
| B 1500                 | 2 | 15 | 11 | 56 | 7                       | 11 | 34 | 37 |  | 1534                   | 2 | 15 | 40 | 50 | 10                      | 17 | 30 | 15 |  |
| 1501                   | 2 | 15 | 12 | 47 | 2                       | 26 | 38 | 23 |  | 1535                   | 2 | 15 | 41 | 41 | 6                       | 2  | 32 | 0  |  |
| 1502                   | 2 | 15 | 13 | 38 | 10                      | 11 | 38 | 8  |  | B 1536                 | 2 | 15 | 42 | 32 | 1                       | 18 | 10 | 45 |  |
| 1503                   | 2 | 15 | 14 | 29 | 5                       | 26 | 29 | 53 |  | 1537                   | 2 | 15 | 43 | 23 | 9                       | 3  | 12 | 30 |  |
| B 1504                 | 2 | 15 | 15 | 20 | 1                       | 12 | 18 | 38 |  | 1538                   | 2 | 15 | 44 | 14 | 4                       | 18 | 14 | 16 |  |
| 1505                   | 2 | 15 | 16 | 11 | 8                       | 27 | 20 | 24 |  | 1539                   | 2 | 15 | 45 | 5  | 0                       | 3  | 16 | 1  |  |
| 1506                   | 2 | 15 | 17 | 2  | 4                       | 12 | 22 | 9  |  | B 1540                 | 2 | 15 | 45 | 56 | 7                       | 18 | 54 | 46 |  |
| 1507                   | 2 | 15 | 17 | 53 | 11                      | 27 | 23 | 54 |  | 1541                   | 2 | 15 | 46 | 47 | 3                       | 3  | 56 | 31 |  |
| B 1508                 | 2 | 15 | 18 | 44 | 7                       | 13 | 2  | 39 |  | 1542                   | 2 | 15 | 47 | 38 | 10                      | 18 | 58 | 17 |  |
| 1509                   | 2 | 15 | 19 | 35 | 2                       | 28 | 4  | 24 |  | 1543                   | 2 | 15 | 48 | 29 | 6                       | 4  | 0  | 2  |  |
| 1510                   | 2 | 15 | 20 | 26 | 10                      | 13 | 6  | 10 |  | B 1544                 | 2 | 15 | 49 | 20 | 1                       | 19 | 38 | 47 |  |
| 1511                   | 2 | 15 | 21 | 17 | 5                       | 28 | 7  | 55 |  | 1545                   | 2 | 15 | 50 | 11 | 9                       | 4  | 40 | 32 |  |
| B 1512                 | 2 | 15 | 22 | 8  | 1                       | 13 | 46 | 40 |  | 1546                   | 2 | 15 | 51 | 2  | 4                       | 19 | 42 | 17 |  |
| 1513                   | 2 | 15 | 22 | 59 | 8                       | 28 | 48 | 25 |  | 1547                   | 2 | 15 | 51 | 53 | 0                       | 4  | 44 | 3  |  |
| 1514                   | 2 | 15 | 23 | 50 | 4                       | 13 | 50 | 11 |  | B 1548                 | 2 | 15 | 52 | 44 | 7                       | 20 | 22 | 48 |  |
| 1515                   | 2 | 15 | 24 | 41 | 11                      | 28 | 51 | 56 |  | 1549                   | 2 | 15 | 53 | 35 | 3                       | 5  | 24 | 33 |  |
| B 1516                 | 2 | 15 | 25 | 32 | 7                       | 14 | 30 | 41 |  | 1550                   | 2 | 15 | 54 | 26 | 10                      | 20 | 26 | 18 |  |
| 1517                   | 2 | 15 | 26 | 23 | 2                       | 29 | 32 | 26 |  | 1551                   | 2 | 15 | 55 | 17 | 6                       | 5  | 28 | 4  |  |
| 1518                   | 2 | 15 | 27 | 14 | 10                      | 14 | 34 | 12 |  | B 1552                 | 2 | 15 | 56 | 8  | 1                       | 21 | 6  | 48 |  |
| 1519                   | 2 | 15 | 28 | 5  | 5                       | 29 | 35 | 57 |  | 1553                   | 2 | 15 | 56 | 59 | 9                       | 6  | 8  | 34 |  |
| B 1520                 | 2 | 15 | 28 | 56 | 1                       | 15 | 14 | 42 |  | 1554                   | 2 | 15 | 57 | 50 | 4                       | 21 | 10 | 19 |  |
| 1521                   | 2 | 15 | 29 | 47 | 9                       | 0  | 16 | 27 |  | 1555                   | 2 | 15 | 58 | 41 | 0                       | 6  | 12 | 5  |  |
| 1522                   | 2 | 15 | 30 | 38 | 4                       | 15 | 18 | 12 |  | B 1556                 | 2 | 15 | 59 | 32 | 7                       | 21 | 50 | 49 |  |
| 1523                   | 2 | 15 | 31 | 29 | 0                       | 0  | 19 | 58 |  | 1557                   | 2 | 16 | 0  | 23 | 3                       | 6  | 52 | 35 |  |
| B 1524                 | 2 | 15 | 32 | 20 | 7                       | 15 | 58 | 43 |  | 1558                   | 2 | 16 | 1  | 14 | 10                      | 26 | 54 | 20 |  |
| 1525                   | 2 | 15 | 33 | 11 | 3                       | 1  | 0  | 28 |  | 1559                   | 2 | 16 | 2  | 5  | 6                       | 6  | 56 | 5  |  |
| 1526                   | 2 | 15 | 34 | 2  | 10                      | 16 | 2  | 13 |  | B 1560                 | 2 | 16 | 2  | 56 | 1                       | 22 | 34 | 50 |  |
| 1527                   | 2 | 15 | 34 | 53 | 6                       | 1  | 3  | 59 |  | 1561                   | 2 | 16 | 3  | 47 | 9                       | 7  | 36 | 36 |  |
| B 1528                 | 2 | 15 | 35 | 44 | 1                       | 16 | 42 | 43 |  | 1562                   | 2 | 16 | 4  | 38 | 4                       | 22 | 38 | 21 |  |
| 1529                   | 2 | 15 | 36 | 35 | 9                       | 1  | 44 | 29 |  | 1563                   | 2 | 16 | 5  | 29 | 0                       | 7  | 40 | 6  |  |
| 1530                   | 2 | 15 | 37 | 26 | 4                       | 16 | 46 | 14 |  | B 1564                 | 2 | 16 | 6  | 20 | 7                       | 23 | 18 | 51 |  |
| 1531                   | 2 | 15 | 38 | 17 | 0                       | 1  | 47 | 59 |  | 1565                   | 2 | 16 | 7  | 11 | 3                       | 8  | 20 | 36 |  |
| B 1532                 | 2 | 15 | 39 | 8  | 7                       | 17 | 26 | 44 |  | 1566                   | 2 | 16 | 8  | 2  | 10                      | 23 | 22 | 22 |  |
| 1533                   | 2 | 15 | 39 | 59 | 3                       | 2  | 28 | 30 |  | 1567                   | 2 | 16 | 8  | 53 | 6                       | 8  | 24 | 7  |  |



## Radices Aequalium motuum ♀ Tychoni-Copernicæ.

| Anom.com-<br>mutationis |    |    |    |
|-------------------------|----|----|----|
| S                       | P  | i  | u  |
| 10                      | 17 | 30 | 15 |
| 6                       | 2  | 32 | 0  |
| 1                       | 18 | 10 | 45 |
| 9                       | 3  | 12 | 30 |
| 4                       | 18 | 14 | 16 |
| 5                       | 0  | 3  | 16 |
| 6                       | 7  | 18 | 54 |
| 7                       | 3  | 3  | 56 |
| 8                       | 10 | 18 | 58 |
| 9                       | 6  | 4  | 0  |
| 0                       | 1  | 19 | 38 |
| 1                       | 9  | 4  | 40 |
| 2                       | 4  | 19 | 42 |
| 3                       | 0  | 4  | 44 |
| 4                       | 7  | 20 | 22 |
| 5                       | 3  | 5  | 24 |
| 6                       | 10 | 20 | 26 |
| 7                       | 6  | 5  | 28 |
| 8                       | 1  | 21 | 6  |
| 9                       | 9  | 6  | 8  |
| 0                       | 4  | 21 | 10 |
| 1                       | 0  | 6  | 12 |
| 2                       | 7  | 21 | 50 |
| 3                       | 3  | 6  | 52 |
| 4                       | 10 | 26 | 54 |
| 5                       | 6  | 6  | 56 |
| 6                       | 1  | 22 | 34 |
| 7                       | 9  | 7  | 36 |
| 8                       | 4  | 22 | 38 |
| 9                       | 0  | 7  | 40 |
| 0                       | 7  | 23 | 18 |
| 1                       | 3  | 8  | 20 |
| 2                       | 10 | 23 | 22 |
| 3                       | 6  | 8  | 24 |

| Anom.com<br>mutationis        |   |    |    | Apogæi ♀<br>ab Acquin. |     |    |    | Anom.com<br>mutationis |   |        |   | Apogæi ♀<br>ab Acquin. |    |    |     | Anom.com<br>mutationis |    |    |   |
|-------------------------------|---|----|----|------------------------|-----|----|----|------------------------|---|--------|---|------------------------|----|----|-----|------------------------|----|----|---|
| Ann                           | S | P  | i  | u                      | Ann | S  | P  | i                      | u | Ann    | S | P                      | i  | u  | Ann | S                      | P  | i  | u |
| 1567                          | 2 | 16 | 8  | 53                     | 6   | 8  | 24 | 7                      |   | 1599   | 2 | 16                     | 36 | 5  | 6   | 8                      | 6  | 19 |   |
| B 1568                        | 2 | 16 | 9  | 44                     | 1   | 24 | 2  | 52                     |   | B 1600 | 2 | 16                     | 36 | 56 | 1   | 23                     | 4  | 4  |   |
| 1569                          | 2 | 16 | 10 | 35                     | 9   | 9  | 4  | 37                     |   | 1601   | 2 | 16                     | 37 | 47 | 9   | 8                      | 40 | 49 |   |
| 1570                          | 2 | 16 | 11 | 26                     | 4   | 24 | 6  | 23                     |   | 1602   | 2 | 16                     | 38 | 38 | 4   | 23                     | 48 | 35 |   |
| 1571                          | 2 | 16 | 12 | 17                     | 0   | 9  | 8  | 8                      |   | 1603   | 2 | 16                     | 39 | 29 | 0   | 8                      | 50 | 20 |   |
| B 1572                        | 2 | 16 | 13 | 8                      | 7   | 24 | 46 | 53                     |   | B 1604 | 2 | 16                     | 40 | 20 | 7   | 24                     | 29 | 5  |   |
| 1573                          | 2 | 16 | 13 | 59                     | 3   | 9  | 48 | 38                     |   | 1605   | 2 | 16                     | 41 | 11 | 3   | 9                      | 30 | 50 |   |
| 1574                          | 2 | 16 | 14 | 50                     | 10  | 24 | 50 | 23                     |   | 1606   | 2 | 16                     | 42 | 2  | 10  | 24                     | 32 | 36 |   |
| 1575                          | 2 | 16 | 15 | 41                     | 6   | 9  | 52 | 9                      |   | 1607   | 2 | 16                     | 42 | 53 | 6   | 9                      | 34 | 21 |   |
| B 1576                        | 2 | 16 | 16 | 32                     | 1   | 25 | 30 | 54                     |   | B 1608 | 2 | 16                     | 43 | 44 | 1   | 25                     | 13 | 6  |   |
| 1577                          | 2 | 16 | 17 | 23                     | 9   | 10 | 32 | 39                     |   | 1609   | 2 | 16                     | 44 | 35 | 9   | 10                     | 14 | 51 |   |
| 1578                          | 2 | 16 | 18 | 14                     | 4   | 25 | 34 | 24                     |   | 1610   | 2 | 16                     | 45 | 26 | 4   | 25                     | 16 | 36 |   |
| 1579                          | 2 | 16 | 19 | 5                      | 0   | 10 | 36 | 10                     |   | 1611   | 2 | 16                     | 46 | 17 | 0   | 10                     | 18 | 22 |   |
| B 1580                        | 2 | 16 | 19 | 56                     | 7   | 26 | 14 | 54                     |   | B 1612 | 2 | 16                     | 47 | 8  | 7   | 25                     | 57 | 7  |   |
| 1581                          | 2 | 16 | 20 | 43                     | 3   | 10 | 16 | 40                     |   | 1613   | 2 | 16                     | 47 | 59 | 3   | 10                     | 58 | 52 |   |
| 1582                          | 2 | 16 | 21 | 38                     | 10  | 20 | 8  | 30                     |   | 1614   | 2 | 16                     | 48 | 50 | 10  | 26                     | 0  | 37 |   |
| Radices in Annis Gregorianis. |   |    |    |                        |     |    |    |                        |   |        |   |                        |    |    |     |                        |    |    |   |
| 1583                          | 2 | 16 | 22 | 29                     | 6   | 5  | 10 | 16                     |   | 1615   | 2 | 16                     | 49 | 41 | 6   | 11                     | 2  | 23 |   |
| B 1584                        | 2 | 16 | 23 | 20                     | 1   | 20 | 49 | 1                      |   | B 1616 | 2 | 16                     | 50 | 32 | 1   | 26                     | 41 | 7  |   |
| 1585                          | 2 | 16 | 24 | 11                     | 9   | 5  | 50 | 46                     |   | 1617   | 2 | 16                     | 51 | 23 | 9   | 11                     | 42 | 53 |   |
| 1586                          | 2 | 16 | 25 | 2                      | 4   | 20 | 52 | 31                     |   | 1618   | 2 | 16                     | 52 | 14 | 4   | 26                     | 44 | 38 |   |
| 1587                          | 2 | 16 | 26 | 53                     | 0   | 5  | 54 | 17                     |   | 1619   | 2 | 16                     | 53 | 5  | 0   | 11                     | 46 | 23 |   |
| B 1588                        | 2 | 16 | 27 | 44                     | 7   | 21 | 33 | 1                      |   | B 1620 | 2 | 16                     | 53 | 56 | 7   | 27                     | 25 | 8  |   |
| 1589                          | 2 | 16 | 28 | 35                     | 3   | 6  | 34 | 47                     |   | 1621   | 2 | 16                     | 54 | 47 | 3   | 12                     | 26 | 54 |   |
| 1590                          | 2 | 16 | 28 | 26                     | 10  | 21 | 36 | 32                     |   | 1622   | 2 | 16                     | 55 | 38 | 10  | 27                     | 28 | 39 |   |
| 1591                          | 2 | 16 | 29 | 17                     | 6   | 6  | 38 | 18                     |   | 1623   | 2 | 16                     | 56 | 29 | 6   | 12                     | 30 | 24 |   |
| B 1592                        | 2 | 16 | 30 | 8                      | 1   | 22 | 17 | 2                      |   | B 1624 | 2 | 16                     | 57 | 20 | 1   | 28                     | 9  | 9  |   |
| 1593                          | 2 | 16 | 30 | 59                     | 9   | 7  | 18 | 48                     |   | 1625   | 2 | 16                     | 58 | 11 | 9   | 13                     | 10 | 54 |   |
| 1594                          | 2 | 16 | 31 | 50                     | 4   | 22 | 20 | 33                     |   | 1626   | 2 | 16                     | 59 | 2  | 4   | 28                     | 12 | 40 |   |
| 1595                          | 2 | 16 | 32 | 41                     | 0   | 7  | 22 | 18                     |   | 1627   | 2 | 16                     | 59 | 53 | 0   | 13                     | 14 | 25 |   |
| B 1596                        | 2 | 16 | 33 | 32                     | 7   | 23 | 1  | 3                      |   | B 1628 | 2 | 17                     | 0  | 44 | 7   | 28                     | 53 | 10 |   |
| 1597                          | 2 | 16 | 34 | 23                     | 3   | 8  | 2  | 49                     |   | 1629   | 2 | 17                     | 1  | 35 | 3   | 13                     | 54 | 55 |   |
| 1598                          | 2 | 16 | 35 | 14                     | 10  | 23 | 4  | 34                     |   | 1630   | 2 | 17                     | 2  | 26 | 10  | 28                     | 56 | 41 |   |
|                               |   |    |    |                        |     |    |    |                        |   | 1631   | 2 | 17                     | 3  | 17 | 6   | 13                     | 58 | 26 |   |
|                               |   |    |    |                        |     |    |    |                        |   | B 1632 | 2 | 17                     | 4  | 8  | 1   | 29                     | 37 | 11 |   |

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| Anni   | Apogæi ♀<br>ab Aequin. |    |    |    | Anom.com<br>mutation. |    |    |    | Anni   | Apogæi ♀<br>ab Aequin. |    |    |    | Anom.com<br>mutation. |    |    |    |
|--------|------------------------|----|----|----|-----------------------|----|----|----|--------|------------------------|----|----|----|-----------------------|----|----|----|
|        | S                      | P  | i  | '' | S                     | P  | i  | '' |        | S                      | P  | i  | '' | S                     | P  | i  | '' |
| 1633   | 2                      | 17 | 4  | 59 | 9                     | 14 | 38 | 56 | 1667   | 2                      | 17 | 33 | 53 | 0                     | 20 | 34 | 34 |
| 1634   | 2                      | 17 | 5  | 50 | 4                     | 29 | 40 | 41 | B 1668 | 2                      | 17 | 34 | 44 | 8                     | 6  | 13 | 18 |
| 1635   | 2                      | 17 | 6  | 41 | 0                     | 14 | 42 | 27 | 1669   | 2                      | 17 | 35 | 35 | 3                     | 21 | 15 | 4  |
| B 1636 | 2                      | 17 | 7  | 32 | 8                     | 0  | 21 | 12 | 1670   | 2                      | 17 | 36 | 26 | 11                    | 6  | 16 | 49 |
| 1637   | 2                      | 17 | 8  | 23 | 3                     | 15 | 22 | 57 | 1671   | 2                      | 17 | 37 | 17 | 6                     | 21 | 18 | 35 |
| 1638   | 2                      | 17 | 9  | 14 | 11                    | 0  | 24 | 42 | B 1672 | 2                      | 17 | 38 | 8  | 2                     | 6  | 57 | 19 |
| 1639   | 2                      | 17 | 10 | 5  | 6                     | 15 | 26 | 28 | 1673   | 2                      | 17 | 38 | 59 | 9                     | 21 | 59 | 5  |
| B 1640 | 2                      | 17 | 10 | 56 | 2                     | 1  | 5  | 13 | 1674   | 2                      | 17 | 39 | 50 | 5                     | 7  | 0  | 50 |
| 1641   | 2                      | 17 | 11 | 47 | 9                     | 16 | 6  | 58 | 1675   | 2                      | 17 | 40 | 41 | 0                     | 22 | 2  | 35 |
| 1642   | 2                      | 17 | 12 | 38 | 5                     | 1  | 8  | 43 | B 1676 | 2                      | 17 | 41 | 32 | 8                     | 7  | 41 | 20 |
| 1643   | 2                      | 17 | 13 | 29 | 0                     | 16 | 10 | 29 | 1677   | 2                      | 17 | 42 | 23 | 3                     | 22 | 43 | 5  |
| B 1644 | 2                      | 17 | 14 | 20 | 8                     | 1  | 49 | 13 | 1678   | 2                      | 17 | 43 | 14 | 11                    | 7  | 44 | 51 |
| 1645   | 2                      | 17 | 15 | 11 | 3                     | 16 | 50 | 59 | 1679   | 2                      | 17 | 44 | 5  | 6                     | 22 | 46 | 36 |
| 1646   | 2                      | 17 | 16 | 2  | 11                    | 1  | 52 | 44 | B 1680 | 2                      | 17 | 44 | 56 | 2                     | 8  | 25 | 21 |
| 1647   | 2                      | 17 | 16 | 53 | 6                     | 16 | 54 | 29 | 1681   | 2                      | 17 | 45 | 47 | 9                     | 23 | 27 | 6  |
| B 1648 | 2                      | 17 | 17 | 44 | 2                     | 2  | 33 | 14 | 1682   | 2                      | 17 | 46 | 38 | 5                     | 8  | 28 | 52 |
| 1649   | 2                      | 17 | 18 | 35 | 9                     | 17 | 35 | 0  | 1683   | 2                      | 17 | 47 | 29 | 0                     | 23 | 30 | 37 |
| 1650   | 2                      | 17 | 19 | 26 | 5                     | 2  | 36 | 45 | B 1684 | 2                      | 17 | 48 | 20 | 8                     | 9  | 9  | 22 |
| 1651   | 2                      | 17 | 20 | 17 | 0                     | 17 | 38 | 30 | 1685   | 2                      | 17 | 49 | 11 | 3                     | 24 | 11 | 7  |
| B 1652 | 2                      | 17 | 21 | 8  | 8                     | 3  | 17 | 15 | 1686   | 2                      | 17 | 50 | 2  | 11                    | 9  | 12 | 53 |
| 1653   | 2                      | 17 | 21 | 59 | 3                     | 18 | 19 | 0  | 1687   | 2                      | 17 | 50 | 53 | 6                     | 24 | 14 | 38 |
| 1654   | 2                      | 17 | 22 | 50 | 11                    | 3  | 20 | 46 | B 1688 | 2                      | 17 | 51 | 44 | 2                     | 9  | 53 | 23 |
| 1655   | 2                      | 17 | 23 | 41 | 6                     | 18 | 22 | 31 | 1689   | 2                      | 17 | 52 | 35 | 9                     | 24 | 55 | 8  |
| B 1656 | 2                      | 17 | 24 | 32 | 2                     | 4  | 1  | 16 | 1690   | 2                      | 17 | 53 | 26 | 5                     | 9  | 56 | 53 |
| 1657   | 2                      | 17 | 25 | 23 | 9                     | 19 | 3  | 1  | 1691   | 2                      | 17 | 54 | 17 | 0                     | 24 | 58 | 39 |
| 1658   | 2                      | 17 | 26 | 14 | 5                     | 4  | 4  | 47 | B 1692 | 2                      | 17 | 55 | 8  | 8                     | 10 | 37 | 24 |
| 1659   | 2                      | 17 | 27 | 5  | 0                     | 19 | 6  | 32 | 1693   | 2                      | 17 | 55 | 59 | 3                     | 25 | 39 | 9  |
| B 1660 | 2                      | 17 | 27 | 56 | 8                     | 4  | 45 | 17 | 1694   | 2                      | 17 | 56 | 50 | 11                    | 10 | 40 | 54 |
| 1661   | 2                      | 17 | 28 | 47 | 3                     | 19 | 47 | 2  | 1695   | 2                      | 17 | 57 | 41 | 6                     | 25 | 42 | 40 |
| 1662   | 2                      | 17 | 29 | 38 | 11                    | 4  | 48 | 17 | B 1696 | 2                      | 17 | 58 | 32 | 2                     | 11 | 21 | 24 |
| 1663   | 2                      | 17 | 30 | 29 | 6                     | 19 | 50 | 33 | 1697   | 2                      | 17 | 59 | 23 | 9                     | 26 | 23 | 10 |
| B 1664 | 2                      | 17 | 31 | 20 | 2                     | 5  | 29 | 18 | 1698   | 2                      | 18 | 0  | 14 | 5                     | 11 | 24 | 55 |
| 1665   | 2                      | 17 | 32 | 11 | 9                     | 20 | 3  | 1  | 1699   | 2                      | 18 | 1  | 5  | 0                     | 26 | 26 | 40 |
| 1666   | 2                      | 17 | 33 | 2  | 5                     | 5  | 2  | 48 | B 1700 | 2                      | 18 | 1  | 56 | 8                     | 11 | 28 | 26 |



| Anni communis |   |   |    |         |    |    |    | In diebus |   |   |   |         |   |    |    |    |
|---------------|---|---|----|---------|----|----|----|-----------|---|---|---|---------|---|----|----|----|
| Apogæi        |   |   |    | Commūt. |    |    |    | Apogæi    |   |   |   | Commūt. |   |    |    |    |
| S             | P | I | "  | S       | P  | I  | "  | Dies      | S | P | I | "       | S | P  | I  | "  |
| Ian uarius    | o | o | 4  | o       | 19 | 6  | 43 | 1         | o | o | o | o       | o | o  | 36 | 59 |
| Februar.      | o | o | 8  | 1       | 6  | 22 | 29 | 2         | o | o | o | o       | o | 1  | 13 | 59 |
| Martius       | o | o | 13 | 1       | 25 | 29 | 12 | 3         | o | o | o | o       | o | 1  | 50 | 58 |
| Aprilis       | o | o | 17 | 2       | 13 | 58 | 56 | 4         | o | o | o | o       | o | 2  | 27 | 58 |
| Maius         | o | o | 21 | 3       | 3  | 5  | 39 | 5         | o | o | o | o       | o | 3  | 4  | 57 |
| Iunius        | o | o | 25 | 3       | 21 | 35 | 23 | 6         | o | o | o | 1       | o | 3  | 41 | 57 |
| Iulius        | o | o | 30 | 4       | 10 | 42 | 7  | 7         | o | o | o | 1       | o | 4  | 18 | 56 |
| Augustus      | o | o | 34 | 4       | 29 | 48 | 50 | 8         | o | o | o | 1       | o | 4  | 55 | 56 |
| Septemb.      | o | o | 38 | 5       | 18 | 18 | 34 | 9         | o | o | o | 1       | o | 5  | 32 | 55 |
| October       | o | o | 43 | 6       | 7  | 25 | 18 | 10        | o | o | o | 1       | o | 6  | 9  | 55 |
| Nouemb.       | o | o | 47 | 6       | 25 | 55 | 1  | 11        | o | o | o | 1       | o | 6  | 46 | 54 |
| Decemb.       | o | o | 51 | 7       | 15 | 1  | 45 | 12        | o | o | o | 1       | o | 7  | 23 | 54 |
|               |   |   |    |         |    |    |    | 13        | o | o | o | 2       | o | 8  | o  | 53 |
|               |   |   |    |         |    |    |    | 14        | o | o | o | 2       | o | 8  | 37 | 53 |
|               |   |   |    |         |    |    |    | 15        | o | o | o | 2       | o | 9  | 14 | 52 |
|               |   |   |    |         |    |    |    | 16        | o | o | o | 2       | o | 9  | 51 | 51 |
|               |   |   |    |         |    |    |    | 17        | o | o | o | 2       | o | 10 | 28 | 51 |
|               |   |   |    |         |    |    |    | 18        | o | o | o | 2       | o | 11 | 5  | 50 |
|               |   |   |    |         |    |    |    | 19        | o | o | o | 3       | o | 11 | 42 | 50 |
|               |   |   |    |         |    |    |    | 20        | o | o | o | 3       | o | 12 | 19 | 49 |
|               |   |   |    |         |    |    |    | 21        | o | o | o | 3       | o | 12 | 56 | 49 |
|               |   |   |    |         |    |    |    | 22        | o | o | o | 3       | o | 13 | 33 | 48 |
|               |   |   |    |         |    |    |    | 23        | o | o | o | 3       | o | 14 | 10 | 48 |
|               |   |   |    |         |    |    |    | 24        | o | o | o | 3       | o | 14 | 47 | 47 |
|               |   |   |    |         |    |    |    | 25        | o | o | o | 4       | o | 15 | 24 | 47 |
|               |   |   |    |         |    |    |    | 26        | o | o | o | 4       | o | 16 | 1  | 46 |
|               |   |   |    |         |    |    |    | 27        | o | o | o | 4       | o | 16 | 38 | 46 |
|               |   |   |    |         |    |    |    | 28        | o | o | o | 4       | o | 17 | 15 | 45 |
|               |   |   |    |         |    |    |    | 29        | o | o | o | 4       | o | 17 | 52 | 45 |
|               |   |   |    |         |    |    |    | 30        | o | o | o | 4       | o | 18 | 29 | 44 |
|               |   |   |    |         |    |    |    | 31        | o | o | o | 4       | o | 19 | 6  | 44 |

| Anni Bissextilis |   |   |    |   |    |    |    |
|------------------|---|---|----|---|----|----|----|
| Ian uarius       | o | o | 4  | o | 19 | 6  | 43 |
| Februar.         | o | o | 8  | 1 | 6  | 59 | 28 |
| Martius          | o | o | 13 | 1 | 26 | 6  | 11 |
| Aprilis          | o | o | 17 | 2 | 14 | 35 | 55 |
| Maius            | o | o | 21 | 3 | 3  | 42 | 39 |
| Iunius           | o | o | 25 | 3 | 22 | 12 | 23 |
| Iulius           | o | o | 30 | 4 | 11 | 19 | 5  |
| Augustus         | o | o | 34 | 5 | o  | 25 | 50 |
| Septemb.         | o | o | 38 | 5 | 18 | 55 | 34 |
| October          | o | o | 43 | 6 | 8  | 2  | 17 |
| Nouemb.          | o | o | 47 | 6 | 26 | 32 | 1  |
| Decemb.          | o | o | 51 | 7 | 15 | 38 | 45 |

| Anomalie ♀ |   |   |    |    | Anomalie ♀ |   |   |    |    |
|------------|---|---|----|----|------------|---|---|----|----|
| Hor.       | S | P | i  | u  | Min.       | P | i | u  | u  |
| Min.       | P | i | u  | u  | Sec.       | i | u | u  | u  |
| Sec.       | i | u | u  | u  |            |   |   |    |    |
| 1          | 0 | 0 | 1  | 32 | 31         | 0 | 0 | 47 | 47 |
| 2          | 0 | 0 | 3  | 5  | 32         | 0 | 0 | 49 | 19 |
| 3          | 0 | 0 | 4  | 37 | 33         | 0 | 0 | 50 | 52 |
| 4          | 0 | 0 | 6  | 10 | 34         | 0 | 0 | 52 | 24 |
| 5          | 0 | 0 | 7  | 42 | 35         | 0 | 0 | 53 | 57 |
| 6          | 0 | 0 | 9  | 15 | 36         | 0 | 0 | 55 | 29 |
| 7          | 0 | 0 | 10 | 47 | 37         | 0 | 0 | 57 | 2  |
| 8          | 0 | 0 | 12 | 20 | 38         | 0 | 0 | 58 | 34 |
| 9          | 0 | 0 | 13 | 52 | 39         | 0 | 1 | 0  | 7  |
| 10         | 0 | 0 | 15 | 25 | 40         | 0 | 1 | 1  | 39 |
| 11         | 0 | 0 | 16 | 57 | 41         | 0 | 1 | 3  | 11 |
| 12         | 0 | 0 | 18 | 30 | 42         | 0 | 1 | 4  | 44 |
| 13         | 0 | 0 | 20 | 2  | 43         | 0 | 1 | 6  | 16 |
| 14         | 0 | 0 | 21 | 35 | 44         | 0 | 1 | 7  | 49 |
| 15         | 0 | 0 | 23 | 7  | 45         | 0 | 1 | 9  | 21 |
| 16         | 0 | 0 | 24 | 40 | 46         | 0 | 1 | 10 | 54 |
| 17         | 0 | 0 | 26 | 12 | 47         | 0 | 1 | 12 | 26 |
| 18         | 0 | 0 | 27 | 45 | 48         | 0 | 1 | 13 | 59 |
| 19         | 0 | 0 | 29 | 17 | 49         | 0 | 1 | 15 | 31 |
| 20         | 0 | 0 | 30 | 50 | 50         | 0 | 1 | 17 | 4  |
| 21         | 0 | 0 | 32 | 22 | 51         | 0 | 1 | 18 | 36 |
| 22         | 0 | 0 | 33 | 55 | 52         | 0 | 1 | 20 | 9  |
| 23         | 0 | 0 | 35 | 27 | 53         | 0 | 1 | 21 | 41 |
| 24         | 0 | 0 | 36 | 59 | 54         | 0 | 1 | 23 | 14 |
| 25         | 0 | 0 | 38 | 32 | 55         | 0 | 1 | 24 | 46 |
| 26         | 0 | 0 | 40 | 4  | 56         | 0 | 1 | 26 | 19 |
| 27         | 0 | 0 | 41 | 37 | 57         | 0 | 1 | 27 | 51 |
| 28         | 0 | 0 | 43 | 9  | 58         | 0 | 1 | 29 | 24 |
| 29         | 0 | 0 | 44 | 42 | 59         | 0 | 1 | 30 | 56 |
| 30         | 0 | 0 | 46 | 14 | 60         | 0 | 1 | 32 | 29 |



# Ac Tab. Secundorum Mobilium.

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Radices Aequalium motuum ☿ Tychoni-Copernicæ.

| malix | ☿   |
|-------|-----|
| I     | II  |
| II    | III |
| III   | III |
| 47    | 47  |
| 49    | 19  |
| 50    | 52  |
| 52    | 24  |
| 53    | 57  |
| 55    | 29  |
| 57    | 2   |
| 58    | 34  |
| 0     | 7   |
| 1     | 39  |
| 3     | 11  |
| 4     | 44  |
| 6     | 16  |
| 7     | 49  |
| 9     | 21  |
| 10    | 54  |
| 12    | 26  |
| 13    | 59  |
| 15    | 31  |
| 17    | 4   |
| 18    | 36  |
| 20    | 9   |
| 21    | 41  |
| 23    | 14  |
| 24    | 46  |
| 26    | 19  |
| 27    | 51  |
| 29    | 24  |
| 30    | 56  |
| 32    | 29  |

| Anni   | Apogæi ☿<br>ab Aequin. |    |    |    | Anom.com<br>mutat. ☿ |    |    |    | Anni   | Apogæi ☿<br>ab Aequin. |    |    |    | Anom.com<br>mutat. ☿ |    |    |    |
|--------|------------------------|----|----|----|----------------------|----|----|----|--------|------------------------|----|----|----|----------------------|----|----|----|
|        | S                      | P  | I  | II | S                    | P  | I  | II |        | S                      | P  | I  | II | S                    | P  | I  | II |
| B 1500 | 7                      | 27 | 32 | 50 | 2                    | 6  | 11 | 7  | 1534   | 7                      | 28 | 34 | 31 | 4                    | 5  | 34 | 56 |
| 1501   | 7                      | 27 | 34 | 39 | 4                    | 0  | 8  | 33 | 1535   | 7                      | 28 | 36 | 20 | 5                    | 29 | 32 | 21 |
| 1502   | 7                      | 27 | 36 | 28 | 5                    | 24 | 5  | 58 | B 1536 | 7                      | 28 | 38 | 9  | 7                    | 26 | 36 | 11 |
| 1503   | 7                      | 27 | 38 | 17 | 7                    | 18 | 3  | 24 | 1537   | 7                      | 28 | 39 | 58 | 9                    | 20 | 33 | 37 |
| B 1504 | 7                      | 27 | 40 | 6  | 9                    | 15 | 7  | 14 | 1538   | 7                      | 28 | 41 | 47 | 11                   | 14 | 31 | 3  |
| 1505   | 7                      | 27 | 41 | 55 | 11                   | 9  | 4  | 40 | 1539   | 7                      | 28 | 43 | 36 | 1                    | 8  | 28 | 29 |
| 1506   | 7                      | 27 | 43 | 44 | 1                    | 3  | 2  | 6  | B 1540 | 7                      | 28 | 45 | 25 | 3                    | 5  | 32 | 19 |
| 1507   | 7                      | 27 | 45 | 33 | 2                    | 26 | 59 | 31 | 1541   | 7                      | 28 | 47 | 14 | 4                    | 29 | 39 | 44 |
| B 1508 | 7                      | 27 | 47 | 21 | 4                    | 24 | 3  | 21 | 1542   | 7                      | 28 | 49 | 3  | 6                    | 23 | 27 | 10 |
| 1509   | 7                      | 27 | 49 | 10 | 6                    | 18 | 0  | 47 | 1543   | 7                      | 28 | 50 | 52 | 8                    | 17 | 24 | 36 |
| 1510   | 7                      | 27 | 50 | 59 | 8                    | 11 | 58 | 13 | B 1544 | 7                      | 28 | 52 | 41 | 10                   | 14 | 27 | 26 |
| 1511   | 7                      | 27 | 52 | 48 | 10                   | 5  | 55 | 38 | 1545   | 7                      | 28 | 54 | 30 | 0                    | 8  | 25 | 52 |
| B 1512 | 7                      | 27 | 54 | 37 | 0                    | 2  | 59 | 28 | 1546   | 7                      | 28 | 56 | 18 | 2                    | 2  | 23 | 17 |
| 1513   | 7                      | 27 | 56 | 26 | 1                    | 26 | 56 | 54 | 1547   | 7                      | 28 | 58 | 7  | 3                    | 26 | 20 | 43 |
| 1514   | 7                      | 27 | 58 | 15 | 3                    | 20 | 54 | 20 | B 1548 | 7                      | 28 | 59 | 56 | 5                    | 23 | 24 | 33 |
| 1515   | 7                      | 28 | 0  | 4  | 5                    | 14 | 51 | 46 | 1549   | 7                      | 29 | 1  | 45 | 7                    | 17 | 21 | 59 |
| B 1516 | 7                      | 28 | 1  | 53 | 7                    | 11 | 55 | 36 | 1550   | 7                      | 29 | 3  | 34 | 9                    | 11 | 19 | 24 |
| 1517   | 7                      | 28 | 3  | 41 | 9                    | 5  | 53 | 1  | 1551   | 7                      | 29 | 5  | 23 | 11                   | 5  | 16 | 50 |
| 1518   | 7                      | 28 | 5  | 30 | 10                   | 29 | 50 | 27 | B 1552 | 7                      | 29 | 7  | 12 | 1                    | 2  | 20 | 40 |
| 1519   | 7                      | 28 | 7  | 19 | 0                    | 23 | 47 | 53 | 1553   | 7                      | 29 | 9  | 0  | 2                    | 26 | 18 | 6  |
| B 1520 | 7                      | 28 | 9  | 8  | 2                    | 20 | 51 | 43 | 1554   | 7                      | 29 | 10 | 49 | 4                    | 20 | 15 | 32 |
| 1521   | 7                      | 28 | 10 | 56 | 4                    | 14 | 49 | 8  | 1555   | 7                      | 29 | 12 | 38 | 6                    | 14 | 12 | 57 |
| 1522   | 7                      | 28 | 12 | 43 | 6                    | 8  | 46 | 34 | B 1556 | 7                      | 29 | 14 | 27 | 8                    | 11 | 26 | 47 |
| 1523   | 7                      | 28 | 14 | 34 | 8                    | 2  | 44 | 0  | 1557   | 7                      | 29 | 16 | 16 | 10                   | 5  | 14 | 13 |
| B 1524 | 7                      | 28 | 16 | 23 | 9                    | 29 | 47 | 50 | 1558   | 7                      | 29 | 18 | 5  | 11                   | 29 | 11 | 39 |
| 1525   | 7                      | 28 | 18 | 12 | 11                   | 23 | 45 | 16 | 1559   | 7                      | 29 | 19 | 54 | 1                    | 23 | 9  | 4  |
| 1526   | 7                      | 28 | 20 | 1  | 1                    | 17 | 42 | 41 | B 1560 | 7                      | 29 | 21 | 43 | 3                    | 20 | 12 | 54 |
| 1527   | 7                      | 28 | 21 | 49 | 3                    | 11 | 40 | 7  | 1561   | 7                      | 29 | 23 | 31 | 5                    | 14 | 10 | 20 |
| B 1528 | 7                      | 28 | 23 | 38 | 5                    | 8  | 43 | 57 | 1562   | 7                      | 29 | 25 | 20 | 7                    | 8  | 7  | 46 |
| 1529   | 7                      | 28 | 25 | 27 | 7                    | 2  | 41 | 23 | 1563   | 7                      | 29 | 27 | 9  | 9                    | 2  | 5  | 12 |
| 1530   | 7                      | 28 | 27 | 16 | 8                    | 26 | 38 | 49 | B 1564 | 7                      | 29 | 28 | 58 | 10                   | 29 | 9  | 2  |
| 1531   | 7                      | 28 | 29 | 5  | 10                   | 20 | 36 | 14 | 1565   | 7                      | 29 | 30 | 47 | 0                    | 23 | 6  | 27 |
| B 1532 | 7                      | 28 | 30 | 54 | 0                    | 17 | 40 | 4  | 1566   | 7                      | 29 | 32 | 36 | 2                    | 17 | 3  | 53 |
| 1533   | 7                      | 28 | 32 | 43 | 2                    | 11 | 37 | 30 | 1567   | 7                      | 29 | 34 | 25 | 4                    | 11 | 1  | 19 |

N 3

|                               |  |  |  | Apogæi ☿<br>ab Aequin. |    |    |    | Anom.com<br>mutationis |    |    |    |        |  |  |  | Apogæi ☿<br>ab Aequin. |   |    |    | Anom.com<br>mutationis |    |    |    |
|-------------------------------|--|--|--|------------------------|----|----|----|------------------------|----|----|----|--------|--|--|--|------------------------|---|----|----|------------------------|----|----|----|
| Anni                          |  |  |  | S                      | P  | I  | II | S                      | P  | I  | II | Anni   |  |  |  | S                      | P | I  | II | S                      | P  | I  | II |
| 1567                          |  |  |  | 7                      | 29 | 34 | 25 | 4                      | 11 | 1  | 19 | 1599   |  |  |  | 8                      | 0 | 32 | 29 | 1                      | 21 | 26 | 14 |
| B 1568                        |  |  |  | 7                      | 29 | 36 | 13 | 6                      | 8  | 5  | 9  | B 1600 |  |  |  | 8                      | 0 | 34 | 18 | 3                      | 18 | 30 | 4  |
| 1569                          |  |  |  | 7                      | 29 | 38 | 2  | 8                      | 2  | 2  | 35 | 1601   |  |  |  | 8                      | 0 | 36 | 6  | 5                      | 12 | 27 | 30 |
| 1570                          |  |  |  | 7                      | 29 | 39 | 51 | 9                      | 26 | 0  | 0  | 1602   |  |  |  | 8                      | 0 | 37 | 55 | 7                      | 6  | 24 | 55 |
| 1571                          |  |  |  | 7                      | 29 | 41 | 40 | 11                     | 19 | 57 | 26 | 1603   |  |  |  | 8                      | 0 | 39 | 44 | 9                      | 0  | 22 | 21 |
| B 1572                        |  |  |  | 7                      | 29 | 43 | 38 | 1                      | 17 | 1  | 16 | B 1604 |  |  |  | 8                      | 0 | 41 | 33 | 10                     | 27 | 26 | 11 |
| 1573                          |  |  |  | 7                      | 29 | 45 | 17 | 3                      | 10 | 58 | 42 | 1605   |  |  |  | 8                      | 0 | 43 | 22 | 0                      | 21 | 23 | 37 |
| 1574                          |  |  |  | 7                      | 29 | 47 | 6  | 5                      | 4  | 56 | 7  | 1606   |  |  |  | 8                      | 0 | 45 | 11 | 2                      | 15 | 21 | 2  |
| 1575                          |  |  |  | 7                      | 29 | 48 | 55 | 6                      | 28 | 53 | 33 | 1607   |  |  |  | 8                      | 0 | 47 | 0  | 4                      | 9  | 18 | 28 |
| B 1576                        |  |  |  | 7                      | 29 | 50 | 44 | 8                      | 25 | 57 | 23 | B 1608 |  |  |  | 8                      | 0 | 48 | 48 | 6                      | 6  | 22 | 18 |
| 1577                          |  |  |  | 7                      | 29 | 52 | 33 | 10                     | 19 | 54 | 49 | 1609   |  |  |  | 8                      | 0 | 50 | 37 | 8                      | 0  | 19 | 44 |
| 1578                          |  |  |  | 7                      | 29 | 54 | 22 | 0                      | 13 | 52 | 15 | 1610   |  |  |  | 8                      | 0 | 52 | 26 | 9                      | 24 | 17 | 10 |
| 1579                          |  |  |  | 7                      | 29 | 56 | 11 | 2                      | 7  | 49 | 40 | 1611   |  |  |  | 8                      | 0 | 54 | 15 | 11                     | 18 | 14 | 35 |
| B 1580                        |  |  |  | 7                      | 29 | 58 | 0  | 4                      | 4  | 53 | 30 | B 1612 |  |  |  | 8                      | 0 | 56 | 4  | 1                      | 15 | 18 | 25 |
| 1581                          |  |  |  | 7                      | 29 | 59 | 48 | 5                      | 28 | 50 | 56 | 1613   |  |  |  | 8                      | 0 | 57 | 53 | 3                      | 9  | 15 | 51 |
| 1582                          |  |  |  | 8                      | 0  | 1  | 37 | 6                      | 21 | 44 | 19 | 1614   |  |  |  | 8                      | 0 | 59 | 42 | 5                      | 3  | 13 | 17 |
| Radices in Annis Gregorianis. |  |  |  |                        |    |    |    |                        |    |    |    |        |  |  |  |                        |   |    |    |                        |    |    |    |
| 1583                          |  |  |  | 8                      | 0  | 3  | 26 | 8                      | 15 | 41 | 45 | 1615   |  |  |  | 8                      | 1 | 1  | 31 | 6                      | 27 | 10 | 43 |
| B 1584                        |  |  |  | 8                      | 0  | 5  | 15 | 10                     | 12 | 45 | 35 | B 1616 |  |  |  | 8                      | 1 | 3  | 20 | 8                      | 24 | 14 | 33 |
| 1585                          |  |  |  | 8                      | 0  | 7  | 4  | 0                      | 6  | 43 | 1  | 1617   |  |  |  | 8                      | 1 | 5  | 8  | 10                     | 13 | 11 | 58 |
| 1586                          |  |  |  | 8                      | 0  | 8  | 53 | 2                      | 0  | 40 | 27 | 1618   |  |  |  | 8                      | 1 | 6  | 57 | 0                      | 12 | 9  | 24 |
| 1587                          |  |  |  | 8                      | 0  | 10 | 41 | 3                      | 24 | 37 | 52 | 1619   |  |  |  | 8                      | 1 | 8  | 46 | 2                      | 6  | 6  | 50 |
| B 1588                        |  |  |  | 8                      | 0  | 12 | 30 | 5                      | 21 | 41 | 42 | B 1620 |  |  |  | 8                      | 1 | 10 | 35 | 4                      | 3  | 10 | 40 |
| 1589                          |  |  |  | 8                      | 0  | 14 | 19 | 7                      | 15 | 39 | 8  | 1621   |  |  |  | 8                      | 1 | 12 | 4  | 5                      | 27 | 8  | 5  |
| 1590                          |  |  |  | 8                      | 0  | 16 | 8  | 9                      | 9  | 36 | 34 | 1622   |  |  |  | 8                      | 1 | 14 | 13 | 7                      | 21 | 5  | 31 |
| 1591                          |  |  |  | 8                      | 0  | 17 | 57 | 11                     | 3  | 34 | 0  | 1623   |  |  |  | 8                      | 1 | 16 | 2  | 9                      | 15 | 2  | 57 |
| B 1592                        |  |  |  | 8                      | 0  | 19 | 46 | 1                      | 0  | 37 | 49 | B 1624 |  |  |  | 8                      | 1 | 17 | 50 | 11                     | 12 | 6  | 47 |
| 1593                          |  |  |  | 8                      | 0  | 21 | 35 | 2                      | 24 | 35 | 15 | 1625   |  |  |  | 8                      | 1 | 19 | 39 | 1                      | 6  | 4  | 13 |
| 1594                          |  |  |  | 8                      | 0  | 23 | 24 | 4                      | 18 | 32 | 41 | 1626   |  |  |  | 8                      | 1 | 21 | 28 | 3                      | 0  | 1  | 38 |
| 1595                          |  |  |  | 8                      | 0  | 25 | 13 | 6                      | 12 | 30 | 7  | 1627   |  |  |  | 8                      | 1 | 23 | 17 | 4                      | 23 | 59 | 4  |
| B 1596                        |  |  |  | 8                      | 0  | 27 | 2  | 8                      | 9  | 33 | 57 | B 1628 |  |  |  | 8                      | 1 | 25 | 6  | 6                      | 21 | 2  | 54 |
| 1597                          |  |  |  | 8                      | 0  | 28 | 51 | 10                     | 3  | 31 | 22 | 1629   |  |  |  | 8                      | 1 | 26 | 55 | 8                      | 15 | 0  | 20 |
| 1598                          |  |  |  | 8                      | 0  | 30 | 40 | 11                     | 27 | 28 | 48 | 1630   |  |  |  | 8                      | 1 | 28 | 44 | 10                     | 8  | 57 | 45 |
|                               |  |  |  |                        |    |    |    |                        |    |    |    | 1631   |  |  |  | 8                      | 1 | 30 | 32 | 0                      | 2  | 55 | 11 |
|                               |  |  |  |                        |    |    |    |                        |    |    |    | B 1632 |  |  |  | 8                      | 1 | 32 | 21 | 1                      | 29 | 59 | 1  |



| Anom.com<br>mutationis |    |    |    |
|------------------------|----|----|----|
| S                      | P  | I  | II |
| 1                      | 21 | 26 | 14 |
| 3                      | 18 | 30 | 4  |
| 5                      | 12 | 27 | 30 |
| 7                      | 6  | 24 | 55 |
| 9                      | 0  | 22 | 21 |
| 10                     | 27 | 26 | 11 |
| 0                      | 21 | 23 | 37 |
| 2                      | 15 | 21 | 2  |
| 4                      | 9  | 18 | 28 |
| 6                      | 6  | 22 | 18 |
| 8                      | 0  | 19 | 44 |
| 9                      | 24 | 17 | 10 |
| 11                     | 18 | 14 | 35 |
| 1                      | 15 | 18 | 25 |
| 3                      | 9  | 15 | 51 |
| 5                      | 3  | 13 | 17 |
| 6                      | 27 | 10 | 43 |
| 8                      | 24 | 14 | 33 |
| 10                     | 18 | 11 | 58 |
| 0                      | 12 | 9  | 24 |
| 2                      | 6  | 6  | 50 |
| 4                      | 3  | 10 | 40 |
| 5                      | 27 | 8  | 5  |
| 7                      | 21 | 5  | 31 |
| 9                      | 15 | 2  | 57 |
| 11                     | 12 | 6  | 47 |
| 1                      | 6  | 4  | 13 |
| 3                      | 0  | 1  | 38 |
| 4                      | 23 | 59 | 4  |
| 6                      | 21 | 2  | 54 |
| 8                      | 15 | 0  | 20 |
| 10                     | 8  | 57 | 45 |
| 0                      | 2  | 55 | 11 |
| 1                      | 29 | 59 | 1  |

| Anni   | Apogai ☿<br>ab Aequin. |   |    |    | Anom.com<br>mutationis | Anni | Apogai ☿<br>ab Aequin. |    |   |    | Anom.com<br>mutationis |
|--------|------------------------|---|----|----|------------------------|------|------------------------|----|---|----|------------------------|
|        | S                      | P | I  | II |                        |      | S                      | P  | I | II |                        |
| 1633   | 8                      | 1 | 34 | 10 | 3                      | 23   | 56                     | 27 |   |    |                        |
| 1634   | 8                      | 1 | 35 | 59 | 5                      | 17   | 53                     | 53 |   |    |                        |
| 1635   | 8                      | 1 | 37 | 48 | 7                      | 11   | 51                     | 18 |   |    |                        |
| B 1636 | 8                      | 1 | 39 | 37 | 9                      | 8    | 55                     | 8  |   |    |                        |
| 1637   | 8                      | 1 | 41 | 26 | 11                     | 2    | 52                     | 34 |   |    |                        |
| 1638   | 8                      | 1 | 43 | 14 | 0                      | 26   | 50                     | 0  |   |    |                        |
| 1639   | 8                      | 1 | 45 | 3  | 2                      | 20   | 47                     | 26 |   |    |                        |
| B 1640 | 8                      | 1 | 46 | 52 | 4                      | 17   | 51                     | 16 |   |    |                        |
| 1641   | 8                      | 1 | 48 | 41 | 6                      | 11   | 48                     | 41 |   |    |                        |
| 1642   | 8                      | 1 | 50 | 29 | 8                      | 5    | 46                     | 7  |   |    |                        |
| 1643   | 8                      | 1 | 52 | 18 | 9                      | 29   | 43                     | 33 |   |    |                        |
| B 1644 | 8                      | 1 | 54 | 7  | 11                     | 26   | 47                     | 23 |   |    |                        |
| 1645   | 8                      | 1 | 55 | 56 | 1                      | 20   | 44                     | 48 |   |    |                        |
| 1646   | 8                      | 1 | 57 | 45 | 3                      | 14   | 42                     | 14 |   |    |                        |
| 1647   | 8                      | 1 | 59 | 34 | 5                      | 8    | 39                     | 40 |   |    |                        |
| B 1648 | 8                      | 2 | 1  | 23 | 7                      | 5    | 43                     | 30 |   |    |                        |
| 1649   | 8                      | 2 | 3  | 12 | 8                      | 29   | 40                     | 56 |   |    |                        |
| 1650   | 8                      | 2 | 5  | 0  | 10                     | 23   | 38                     | 21 |   |    |                        |
| 1651   | 8                      | 2 | 6  | 49 | 0                      | 17   | 35                     | 47 |   |    |                        |
| B 1652 | 8                      | 2 | 8  | 38 | 2                      | 14   | 29                     | 37 |   |    |                        |
| 1653   | 8                      | 2 | 10 | 27 | 4                      | 8    | 37                     | 3  |   |    |                        |
| 1654   | 8                      | 2 | 12 | 16 | 6                      | 2    | 34                     | 29 |   |    |                        |
| 1655   | 8                      | 2 | 14 | 5  | 7                      | 26   | 31                     | 54 |   |    |                        |
| B 1656 | 8                      | 2 | 15 | 54 | 9                      | 23   | 35                     | 44 |   |    |                        |
| 1657   | 8                      | 2 | 17 | 43 | 11                     | 17   | 33                     | 10 |   |    |                        |
| 1658   | 8                      | 2 | 19 | 32 | 1                      | 11   | 30                     | 36 |   |    |                        |
| 1659   | 8                      | 2 | 21 | 21 | 3                      | 5    | 28                     | 1  |   |    |                        |
| B 1660 | 8                      | 2 | 23 | 10 | 5                      | 2    | 31                     | 51 |   |    |                        |
| 1661   | 8                      | 2 | 24 | 59 | 6                      | 26   | 29                     | 17 |   |    |                        |
| 1662   | 8                      | 2 | 26 | 48 | 8                      | 20   | 26                     | 43 |   |    |                        |
| 1663   | 8                      | 2 | 28 | 37 | 10                     | 14   | 24                     | 9  |   |    |                        |
| B 1664 | 8                      | 2 | 30 | 26 | 0                      | 11   | 27                     | 59 |   |    |                        |
| 1665   | 8                      | 2 | 32 | 15 | 2                      | 5    | 25                     | 24 |   |    |                        |
| 1666   | 8                      | 2 | 34 | 4  | 3                      | 29   | 22                     | 50 |   |    |                        |
| 1667   | 8                      | 2 | 35 | 53 | 5                      | 23   | 20                     | 16 |   |    |                        |
| B 1668 | 8                      | 2 | 37 | 42 | 7                      | 20   | 24                     | 6  |   |    |                        |
| 1669   | 8                      | 2 | 39 | 31 | 9                      | 14   | 21                     | 31 |   |    |                        |
| 1670   | 8                      | 2 | 41 | 20 | 11                     | 8    | 18                     | 57 |   |    |                        |
| 1671   | 8                      | 2 | 43 | 8  | 1                      | 2    | 16                     | 23 |   |    |                        |
| B 1672 | 8                      | 2 | 44 | 57 | 2                      | 29   | 20                     | 13 |   |    |                        |
| 1673   | 8                      | 2 | 46 | 46 | 4                      | 23   | 17                     | 39 |   |    |                        |
| 1674   | 8                      | 2 | 48 | 35 | 6                      | 17   | 15                     | 4  |   |    |                        |
| 1675   | 8                      | 2 | 50 | 24 | 8                      | 11   | 12                     | 30 |   |    |                        |
| B 1676 | 8                      | 2 | 52 | 13 | 10                     | 8    | 16                     | 20 |   |    |                        |
| 1677   | 8                      | 2 | 54 | 2  | 0                      | 2    | 13                     | 46 |   |    |                        |
| 1678   | 8                      | 2 | 55 | 51 | 1                      | 26   | 11                     | 12 |   |    |                        |
| 1679   | 8                      | 2 | 57 | 39 | 3                      | 20   | 8                      | 37 |   |    |                        |
| B 1680 | 8                      | 2 | 59 | 28 | 5                      | 17   | 12                     | 27 |   |    |                        |
| 1681   | 8                      | 2 | 1  | 17 | 7                      | 11   | 9                      | 53 |   |    |                        |
| 1682   | 8                      | 3 | 3  | 6  | 9                      | 5    | 7                      | 19 |   |    |                        |
| 1683   | 8                      | 3 | 4  | 55 | 10                     | 29   | 4                      | 44 |   |    |                        |
| B 1684 | 8                      | 3 | 6  | 44 | 0                      | 26   | 8                      | 34 |   |    |                        |
| 1685   | 8                      | 3 | 8  | 33 | 2                      | 20   | 6                      | 0  |   |    |                        |
| 1686   | 8                      | 3 | 10 | 22 | 4                      | 14   | 3                      | 26 |   |    |                        |
| 1687   | 8                      | 3 | 12 | 11 | 6                      | 8    | 0                      | 52 |   |    |                        |
| B 1688 | 8                      | 3 | 14 | 0  | 8                      | 5    | 4                      | 42 |   |    |                        |
| 1689   | 8                      | 3 | 15 | 48 | 9                      | 29   | 2                      | 7  |   |    |                        |
| 1690   | 8                      | 3 | 17 | 37 | 11                     | 22   | 59                     | 33 |   |    |                        |
| 1691   | 8                      | 3 | 19 | 26 | 1                      | 16   | 56                     | 59 |   |    |                        |
| B 1692 | 8                      | 3 | 21 | 15 | 3                      | 14   | 0                      | 49 |   |    |                        |
| 1693   | 8                      | 3 | 23 | 4  | 5                      | 7    | 58                     | 14 |   |    |                        |
| 1694   | 8                      | 3 | 24 | 53 | 7                      | 1    | 55                     | 40 |   |    |                        |
| 1695   | 8                      | 3 | 26 | 42 | 8                      | 25   | 53                     | 6  |   |    |                        |
| B 1696 | 8                      | 3 | 28 | 31 | 10                     | 22   | 56                     | 56 |   |    |                        |
| 1697   | 8                      | 3 | 30 | 19 | 0                      | 16   | 54                     | 22 |   |    |                        |
| 1698   | 8                      | 3 | 32 | 8  | 2                      | 10   | 51                     | 47 |   |    |                        |
| 1699   | 8                      | 3 | 33 | 57 | 4                      | 4    | 49                     | 13 |   |    |                        |
| B 1700 | 8                      | 3 | 35 | 46 | 5                      | 28   | 46                     | 39 |   |    |                        |

| Anni communis    |   |   |   |          |    |    |    |      | In diebus |   |   |   |   |   |    |    |    |
|------------------|---|---|---|----------|----|----|----|------|-----------|---|---|---|---|---|----|----|----|
| Apogæi           |   |   |   | Anomalie |    |    |    |      |           |   |   |   |   |   |    |    |    |
| S                | P | i | u | S        | P  | i  | u  | Dies | S         | P | i | u | S | P | i  | u  |    |
| Ianuarius        | 0 | 0 | 0 | 9        | 3  | 6  | 18 | 31   | 1         | 0 | 0 | 0 | 0 | 0 | 3  | 6  | 24 |
| Februar.         | 0 | 0 | 0 | 17       | 6  | 6  | 17 | 50   | 2         | 0 | 0 | 0 | 0 | 0 | 6  | 12 | 48 |
| Martius          | 0 | 0 | 0 | 27       | 9  | 9  | 36 | 21   | 3         | 0 | 0 | 0 | 0 | 0 | 9  | 19 | 13 |
| Aprilis          | 0 | 0 | 0 | 36       | 0  | 12 | 48 | 28   | 4         | 0 | 0 | 0 | 0 | 0 | 12 | 25 | 37 |
| Maius            | 0 | 0 | 0 | 45       | 3  | 19 | 6  | 59   | 5         | 0 | 0 | 0 | 1 | 0 | 15 | 32 | 1  |
| Iunius           | 0 | 0 | 0 | 54       | 6  | 22 | 19 | 7    | 6         | 0 | 0 | 0 | 1 | 0 | 18 | 38 | 25 |
| Iulius           | 0 | 0 | 1 | 4        | 9  | 28 | 37 | 38   | 7         | 0 | 0 | 0 | 1 | 0 | 21 | 44 | 50 |
| Augustus         | 0 | 0 | 1 | 12       | 1  | 4  | 56 | 9    | 8         | 0 | 0 | 0 | 2 | 0 | 24 | 51 | 14 |
| Septemb.         | 0 | 0 | 1 | 21       | 4  | 8  | 8  | 16   | 9         | 0 | 0 | 0 | 2 | 0 | 27 | 57 | 38 |
| October          | 0 | 0 | 1 | 31       | 7  | 14 | 26 | 47   | 10        | 0 | 0 | 0 | 2 | 1 | 1  | 4  | 2  |
| Novemb.          | 0 | 0 | 1 | 40       | 10 | 17 | 38 | 54   | 11        | 0 | 0 | 0 | 3 | 1 | 4  | 10 | 27 |
| Decemb.          | 0 | 0 | 1 | 49       | 1  | 23 | 57 | 26   | 12        | 0 | 0 | 0 | 3 | 1 | 7  | 16 | 51 |
| Anni Bissextilis |   |   |   |          |    |    |    |      |           |   |   |   |   |   |    |    |    |
| Ianuarius        | 0 | 0 | 0 | 9        | 3  | 6  | 18 | 31   | 13        | 0 | 0 | 0 | 3 | 1 | 10 | 23 | 15 |
| Februar.         | 0 | 0 | 0 | 17       | 6  | 6  | 24 | 14   | 14        | 0 | 0 | 0 | 4 | 1 | 13 | 29 | 39 |
| Martius          | 0 | 0 | 0 | 27       | 9  | 12 | 42 | 45   | 15        | 0 | 0 | 0 | 4 | 1 | 16 | 36 | 4  |
| Aprilis          | 0 | 0 | 0 | 36       | 0  | 15 | 54 | 52   | 16        | 0 | 0 | 0 | 4 | 1 | 19 | 42 | 28 |
| Maius            | 0 | 0 | 0 | 45       | 3  | 22 | 13 | 24   | 17        | 0 | 0 | 0 | 5 | 1 | 22 | 48 | 52 |
| Iunius           | 0 | 0 | 0 | 54       | 6  | 25 | 25 | 31   | 18        | 0 | 0 | 0 | 5 | 1 | 25 | 55 | 16 |
| Iulius           | 0 | 0 | 1 | 4        | 10 | 1  | 44 | 2    | 19        | 0 | 0 | 0 | 5 | 1 | 29 | 1  | 40 |
| Augustus         | 0 | 0 | 1 | 12       | 1  | 8  | 2  | 33   | 20        | 0 | 0 | 0 | 6 | 2 | 2  | 8  | 5  |
| Septemb.         | 0 | 0 | 1 | 21       | 4  | 11 | 14 | 40   | 21        | 0 | 0 | 0 | 6 | 2 | 5  | 14 | 29 |
| October          | 0 | 0 | 1 | 31       | 7  | 17 | 33 | 12   | 22        | 0 | 0 | 0 | 6 | 2 | 8  | 20 | 53 |
| Novemb.          | 0 | 0 | 1 | 40       | 10 | 20 | 45 | 19   | 23        | 0 | 0 | 0 | 7 | 2 | 11 | 27 | 17 |
| Decemb.          | 0 | 0 | 1 | 49       | 1  | 27 | 3  | 50   | 24        | 0 | 0 | 0 | 7 | 2 | 14 | 33 | 42 |
|                  |   |   |   |          |    |    |    |      | 25        | 0 | 0 | 0 | 7 | 2 | 17 | 40 | 6  |
|                  |   |   |   |          |    |    |    |      | 26        | 0 | 0 | 0 | 8 | 2 | 20 | 46 | 30 |
|                  |   |   |   |          |    |    |    |      | 27        | 0 | 0 | 0 | 8 | 2 | 23 | 52 | 54 |
|                  |   |   |   |          |    |    |    |      | 28        | 0 | 0 | 0 | 8 | 2 | 26 | 59 | 19 |
|                  |   |   |   |          |    |    |    |      | 29        | 0 | 0 | 0 | 9 | 3 | 0  | 5  | 43 |
|                  |   |   |   |          |    |    |    |      | 30        | 0 | 0 | 0 | 9 | 3 | 3  | 12 | 7  |
|                  |   |   |   |          |    |    |    |      | 31        | 0 | 0 | 0 | 9 | 3 | 6  | 18 | 31 |



# Ac Tab. Secundorum Mobilium.

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Tabula Anomalie ☿ in horis & minutis.

| S | P  | I  | II |
|---|----|----|----|
| 0 | 3  | 6  | 24 |
| 0 | 6  | 12 | 48 |
| 0 | 9  | 19 | 13 |
| 0 | 12 | 25 | 37 |
| 0 | 15 | 32 | 1  |
| 0 | 18 | 38 | 25 |
| 0 | 21 | 44 | 50 |
| 0 | 24 | 51 | 14 |
| 0 | 27 | 57 | 38 |
| 1 | 1  | 4  | 2  |
| 1 | 4  | 10 | 27 |
| 1 | 7  | 16 | 51 |
| 1 | 10 | 23 | 15 |
| 1 | 13 | 29 | 39 |
| 1 | 16 | 36 | 4  |
| 1 | 19 | 42 | 28 |
| 1 | 22 | 48 | 52 |
| 1 | 25 | 55 | 16 |
| 1 | 29 | 1  | 40 |
| 2 | 2  | 8  | 5  |
| 2 | 5  | 14 | 29 |
| 2 | 8  | 20 | 53 |
| 2 | 11 | 27 | 17 |
| 2 | 14 | 33 | 42 |
| 2 | 17 | 40 | 6  |
| 2 | 20 | 46 | 30 |
| 2 | 23 | 52 | 54 |
| 2 | 26 | 59 | 19 |
| 3 | 0  | 5  | 43 |
| 3 | 3  | 12 | 7  |
| 3 | 6  | 18 | 31 |

| Anomalie commut. |   |   |    |     | Anomalie commut. |   |   |    |     |
|------------------|---|---|----|-----|------------------|---|---|----|-----|
| Hor.             | S | P | I  | II  | Min.             | S | P | I  | II  |
| Sec.             | P | I | II | III | Sec.             | P | I | II | III |
| 1                | 0 | 0 | 7  | 46  | 31               | 0 | 4 | 0  | 46  |
| 2                | 0 | 0 | 15 | 32  | 32               | 0 | 4 | 8  | 32  |
| 3                | 0 | 0 | 23 | 18  | 33               | 0 | 4 | 16 | 18  |
| 4                | 0 | 0 | 31 | 4   | 34               | 0 | 4 | 24 | 4   |
| 5                | 0 | 0 | 38 | 50  | 35               | 0 | 4 | 31 | 50  |
| 6                | 0 | 0 | 46 | 36  | 36               | 0 | 4 | 39 | 36  |
| 7                | 0 | 0 | 54 | 22  | 37               | 0 | 4 | 47 | 22  |
| 8                | 0 | 1 | 2  | 8   | 38               | 0 | 4 | 55 | 8   |
| 9                | 0 | 1 | 9  | 54  | 39               | 0 | 5 | 2  | 54  |
| 10               | 0 | 1 | 17 | 40  | 40               | 0 | 5 | 10 | 40  |
| 11               | 0 | 1 | 25 | 26  | 41               | 0 | 5 | 18 | 26  |
| 12               | 0 | 1 | 33 | 12  | 42               | 0 | 5 | 26 | 12  |
| 13               | 0 | 1 | 40 | 58  | 43               | 0 | 5 | 33 | 58  |
| 14               | 0 | 1 | 48 | 44  | 44               | 0 | 5 | 41 | 44  |
| 15               | 0 | 1 | 56 | 30  | 45               | 0 | 5 | 49 | 30  |
| 16               | 0 | 2 | 4  | 16  | 46               | 0 | 5 | 57 | 16  |
| 17               | 0 | 2 | 12 | 2   | 47               | 0 | 6 | 5  | 2   |
| 18               | 0 | 2 | 19 | 48  | 48               | 0 | 6 | 12 | 48  |
| 19               | 0 | 2 | 27 | 34  | 49               | 0 | 6 | 20 | 34  |
| 20               | 0 | 2 | 35 | 20  | 50               | 0 | 6 | 28 | 20  |
| 21               | 0 | 2 | 43 | 6   | 51               | 0 | 6 | 36 | 6   |
| 22               | 0 | 2 | 50 | 52  | 52               | 0 | 6 | 43 | 52  |
| 23               | 0 | 2 | 58 | 38  | 53               | 0 | 6 | 51 | 38  |
| 24               | 0 | 3 | 6  | 24  | 54               | 0 | 6 | 59 | 24  |
| 25               | 0 | 3 | 14 | 10  | 55               | 0 | 7 | 7  | 10  |
| 26               | 0 | 3 | 21 | 56  | 56               | 0 | 7 | 14 | 56  |
| 27               | 0 | 3 | 29 | 42  | 57               | 0 | 7 | 22 | 42  |
| 28               | 0 | 3 | 37 | 28  | 58               | 0 | 7 | 30 | 28  |
| 29               | 0 | 3 | 45 | 14  | 59               | 0 | 7 | 38 | 14  |
| 30               | 0 | 3 | 53 | 0   | 60               | 0 | 7 | 46 | 0   |

Supplementum Ephemeridum,  
Tabula Aequationum Saturni Copernica.

| Anom. Eccen- | O Signum         |    |    |                        |    |          | I Signum         |    |    |                        |    |       | Anom. Eccen- |                      |    |    |    |    |
|--------------|------------------|----|----|------------------------|----|----------|------------------|----|----|------------------------|----|-------|--------------|----------------------|----|----|----|----|
|              | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |          | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |       |              | Nume- rus My sticus. |    |    |    |    |
|              | Subtrahere       |    |    |                        |    |          | Subtrahere       |    |    |                        |    |       |              |                      |    |    |    |    |
|              | P                | I  | II | P                      | I  | II       | P                | I  | II | P                      | I  | II    |              | P                    | I  | II |    |    |
| 0            | 0                | 0  | 0  | 5                      | 55 | 33       | 54               | 23 |    | 3                      | 6  | 24    | 5            | 57                   | 37 | 54 | 17 | 30 |
| 1            | 0                | 6  | 28 | 5                      | 55 | 33       | 54               | 23 |    | 3                      | 12 | 5     | 5            | 57                   | 45 | 54 | 16 | 29 |
| 2            | 0                | 12 | 56 | 5                      | 55 | 33       | 54               | 22 |    | 3                      | 17 | 44    | 5            | 57                   | 54 | 54 | 16 | 28 |
| 3            | 0                | 19 | 24 | 5                      | 55 | 34       | 54               | 22 |    | 3                      | 23 | 18    | 5            | 58                   | 3  | 54 | 15 | 27 |
| 4            | 0                | 25 | 51 | 5                      | 55 | 35       | 54               | 22 |    | 3                      | 28 | 50    | 5            | 58                   | 12 | 54 | 15 | 26 |
| 5            | 0                | 32 | 18 | 5                      | 55 | 36       | 54               | 22 |    | 3                      | 34 | 19    | 5            | 58                   | 21 | 54 | 14 | 25 |
| 6            | 0                | 38 | 44 | 5                      | 55 | 38       | 54               | 22 |    | 3                      | 39 | 43    | 5            | 58                   | 31 | 54 | 14 | 24 |
| 7            | 0                | 45 | 10 | 5                      | 55 | 40       | 54               | 22 |    | 3                      | 45 | 5     | 5            | 58                   | 41 | 54 | 14 | 23 |
| 8            | 0                | 51 | 35 | 5                      | 55 | 42       | 54               | 22 |    | 3                      | 50 | 23    | 5            | 58                   | 51 | 54 | 13 | 22 |
| 9            | 0                | 57 | 59 | 5                      | 55 | 44       | 54               | 22 |    | 3                      | 55 | 37    | 5            | 59                   | 2  | 54 | 13 | 21 |
| 10           | 1                | 4  | 23 | 5                      | 55 | 47       | 54               | 22 |    | 4                      | 0  | 47    | 5            | 59                   | 13 | 54 | 13 | 20 |
| 11           | 1                | 10 | 45 | 5                      | 55 | 50       | 54               | 22 |    | 4                      | 5  | 53    | 5            | 59                   | 24 | 54 | 12 | 19 |
| 12           | 1                | 17 | 6  | 5                      | 55 | 53       | 54               | 22 |    | 4                      | 10 | 56    | 5            | 59                   | 35 | 54 | 12 | 18 |
| 13           | 1                | 23 | 26 | 5                      | 55 | 56       | 54               | 21 |    | 4                      | 15 | 54    | 5            | 59                   | 47 | 54 | 11 | 17 |
| 14           | 1                | 29 | 45 | 5                      | 56 | 0        | 54               | 21 |    | 4                      | 20 | 48    | 5            | 59                   | 59 | 54 | 10 | 16 |
| 15           | 1                | 36 | 2  | 5                      | 56 | 4        | 54               | 21 |    | 4                      | 25 | 38    | 6            | 0                    | 11 | 54 | 10 | 15 |
| 16           | 1                | 42 | 18 | 5                      | 56 | 8        | 54               | 21 |    | 4                      | 30 | 24    | 6            | 0                    | 24 | 54 | 9  | 14 |
| 17           | 1                | 48 | 32 | 5                      | 56 | 13       | 54               | 21 |    | 4                      | 35 | 5     | 6            | 0                    | 37 | 54 | 8  | 13 |
| 18           | 1                | 54 | 45 | 5                      | 56 | 18       | 54               | 20 |    | 4                      | 39 | 42    | 6            | 0                    | 50 | 54 | 8  | 12 |
| 19           | 2                | 0  | 55 | 5                      | 56 | 23       | 54               | 20 |    | 4                      | 44 | 14    | 6            | 1                    | 3  | 54 | 7  | 11 |
| 20           | 2                | 7  | 4  | 5                      | 56 | 28       | 54               | 20 |    | 4                      | 48 | 41    | 6            | 1                    | 17 | 54 | 7  | 10 |
| 21           | 2                | 13 | 11 | 5                      | 56 | 34       | 54               | 20 |    | 4                      | 53 | 4     | 6            | 1                    | 31 | 54 | 6  | 9  |
| 22           | 2                | 19 | 15 | 5                      | 56 | 40       | 54               | 20 |    | 4                      | 57 | 22    | 6            | 1                    | 45 | 54 | 5  | 8  |
| 23           | 2                | 25 | 18 | 5                      | 56 | 46       | 54               | 19 |    | 5                      | 1  | 35    | 6            | 1                    | 59 | 54 | 5  | 7  |
| 24           | 2                | 31 | 18 | 5                      | 56 | 52       | 54               | 19 |    | 5                      | 5  | 43    | 6            | 2                    | 14 | 54 | 4  | 6  |
| 25           | 2                | 37 | 15 | 5                      | 56 | 59       | 54               | 19 |    | 5                      | 9  | 46    | 6            | 2                    | 29 | 54 | 3  | 5  |
| 26           | 2                | 43 | 10 | 5                      | 57 | 6        | 54               | 18 |    | 5                      | 13 | 44    | 6            | 2                    | 44 | 54 | 3  | 4  |
| 27           | 2                | 49 | 3  | 5                      | 57 | 13       | 54               | 18 |    | 5                      | 17 | 37    | 6            | 2                    | 59 | 54 | 2  | 3  |
| 28           | 2                | 54 | 53 | 5                      | 57 | 21       | 54               | 18 |    | 5                      | 21 | 24    | 6            | 3                    | 14 | 54 | 1  | 2  |
| 29           | 3                | 0  | 40 | 5                      | 57 | 29       | 54               | 17 |    | 5                      | 25 | 6     | 6            | 3                    | 30 | 54 | 1  | 1  |
| 30           | 3                | 6  | 24 | 5                      | 57 | 37       | 54               | 17 |    | 5                      | 28 | 43    | 6            | 3                    | 46 | 54 | 0  | 0  |
| Adde         |                  |    |    |                        |    | Adde     |                  |    |    |                        |    | trici |              |                      |    |    |    |    |
| II Signa     |                  |    |    |                        |    | IO Signa |                  |    |    |                        |    | trici |              |                      |    |    |    |    |



| Nume-<br>rus My<br>sticus. |    | Anom. Eccen-<br>trici |
|----------------------------|----|-----------------------|
| P                          | i  |                       |
| 4                          | 17 | 30                    |
| 4                          | 16 | 29                    |
| 4                          | 16 | 28                    |
| 4                          | 15 | 27                    |
| 4                          | 15 | 26                    |
| 4                          | 14 | 25                    |
| 4                          | 14 | 24                    |
| 4                          | 14 | 23                    |
| 4                          | 13 | 22                    |
| 4                          | 13 | 21                    |
| 4                          | 13 | 20                    |
| 4                          | 12 | 19                    |
| 4                          | 12 | 18                    |
| 4                          | 11 | 17                    |
| 4                          | 10 | 16                    |
| 4                          | 10 | 15                    |
| 4                          | 9  | 14                    |
| 4                          | 8  | 13                    |
| 4                          | 8  | 12                    |
| 4                          | 7  | 11                    |
| 4                          | 7  | 10                    |
| 4                          | 6  | 9                     |
| 4                          | 5  | 8                     |
| 4                          | 5  | 7                     |
| 4                          | 4  | 6                     |
| 4                          | 3  | 5                     |
| 4                          | 3  | 4                     |
| 4                          | 2  | 3                     |
| 4                          | 1  | 2                     |
| 4                          | 1  | 1                     |
| 4                          | 0  | 0                     |

| 2 Signa             |                              | 3 Signa             |                              |
|---------------------|------------------------------|---------------------|------------------------------|
| Aequatio<br>Centri. | Aequatio<br>Argum.<br>maxima | Aequatio<br>Centri. | Aequatio<br>Argum.<br>maxima |
| Subtrahe            | Subtrahe                     | Subtrahe            | Subtrahe                     |
| P i //              | P i //                       | P i //              | P i //                       |
| 0                   | 5 28 43                      | 6 3 46              | 54 0                         |
| 1                   | 5 32 14                      | 6 4 2               | 53 59                        |
| 2                   | 5 35 40                      | 6 4 18              | 53 58                        |
| 3                   | 5 39 0                       | 6 4 35              | 53 58                        |
| 4                   | 5 42 14                      | 6 4 52              | 53 57                        |
| 5                   | 5 45 23                      | 6 5 9               | 53 56                        |
| 6                   | 5 48 25                      | 6 5 27              | 53 55                        |
| 7                   | 5 51 22                      | 6 5 45              | 53 54                        |
| 8                   | 5 54 13                      | 6 6 3               | 53 53                        |
| 9                   | 5 56 58                      | 6 6 21              | 53 52                        |
| 10                  | 5 59 36                      | 6 6 40              | 53 52                        |
| 11                  | 6 2 9                        | 6 6 59              | 53 51                        |
| 12                  | 6 4 35                       | 6 7 18              | 53 50                        |
| 13                  | 6 6 55                       | 6 7 37              | 53 49                        |
| 14                  | 6 9 9                        | 6 7 56              | 53 48                        |
| 15                  | 6 11 7                       | 6 8 15              | 53 47                        |
| 16                  | 6 13 18                      | 6 8 35              | 53 46                        |
| 17                  | 6 15 12                      | 6 8 54              | 53 45                        |
| 18                  | 6 17 0                       | 6 9 14              | 53 44                        |
| 19                  | 6 18 42                      | 6 9 34              | 53 43                        |
| 20                  | 6 20 17                      | 6 9 54              | 53 43                        |
| 21                  | 6 21 45                      | 6 10 14             | 53 42                        |
| 22                  | 6 23 6                       | 6 10 35             | 53 41                        |
| 23                  | 6 24 21                      | 6 10 56             | 53 40                        |
| 24                  | 6 25 29                      | 6 11 17             | 53 39                        |
| 25                  | 6 26 30                      | 6 11 38             | 53 38                        |
| 26                  | 6 27 25                      | 6 12 0              | 53 37                        |
| 27                  | 6 28 12                      | 6 12 21             | 53 36                        |
| 28                  | 6 28 53                      | 6 12 43             | 53 35                        |
| 29                  | 6 29 26                      | 6 13 5              | 53 34                        |
| 30                  | 6 29 53                      | 6 13 27             | 53 33                        |
| Adde                |                              | Adde                |                              |
| 9 Signa             |                              | 8 Signa             |                              |

Supplementum Ephemeridum,  
Tabula Aequationum Saturni Copernicea.

| Anom. Eccen-<br>trici | 4 Signa             |    |                              |   |                             |    | 5 Signa             |    |                              |    |                             |    | Anom. Eccen-<br>trici |    |    |    |    |
|-----------------------|---------------------|----|------------------------------|---|-----------------------------|----|---------------------|----|------------------------------|----|-----------------------------|----|-----------------------|----|----|----|----|
|                       | Aequatio<br>Centri. |    | Aequatio<br>Argum.<br>maxima |   | Nume-<br>rus My-<br>sticus. |    | Aequatio<br>Centri. |    | Aequatio<br>Argum.<br>maxima |    | Nume-<br>rus My-<br>sticus. |    |                       |    |    |    |    |
|                       | Subtrahe            |    |                              |   |                             |    | Subtrahe            |    |                              |    |                             |    |                       |    |    |    |    |
|                       | P                   | I  | II                           | P | I                           | II | P                   | I  | II                           | P  | I                           | II |                       |    |    |    |    |
| 0                     | 5                   | 47 | 50                           | 6 | 24                          | 59 | 53                  | 2  | 3                            | 25 | 41                          | 6  | 34                    | 47 | 52 | 36 | 30 |
| 1                     | 5                   | 44 | 36                           | 6 | 25                          | 22 | 53                  | 1  | 3                            | 19 | 33                          | 6  | 35                    | 2  | 52 | 36 | 29 |
| 2                     | 5                   | 41 | 16                           | 6 | 25                          | 44 | 53                  | 0  | 3                            | 13 | 21                          | 6  | 35                    | 16 | 52 | 35 | 28 |
| 3                     | 5                   | 37 | 48                           | 6 | 26                          | 7  | 52                  | 59 | 3                            | 7  | 4                           | 6  | 35                    | 30 | 52 | 34 | 27 |
| 4                     | 5                   | 34 | 14                           | 6 | 26                          | 29 | 52                  | 58 | 3                            | 0  | 44                          | 6  | 35                    | 43 | 52 | 34 | 26 |
| 5                     | 5                   | 30 | 33                           | 6 | 26                          | 51 | 52                  | 57 | 2                            | 54 | 20                          | 6  | 35                    | 56 | 52 | 33 | 25 |
| 6                     | 5                   | 26 | 45                           | 6 | 27                          | 13 | 52                  | 56 | 2                            | 47 | 52                          | 6  | 36                    | 9  | 52 | 32 | 24 |
| 7                     | 5                   | 22 | 51                           | 6 | 27                          | 35 | 52                  | 55 | 2                            | 41 | 20                          | 6  | 36                    | 21 | 52 | 31 | 23 |
| 8                     | 5                   | 18 | 50                           | 6 | 27                          | 56 | 52                  | 54 | 2                            | 44 | 54                          | 6  | 36                    | 33 | 52 | 31 | 22 |
| 9                     | 5                   | 14 | 43                           | 6 | 28                          | 18 | 52                  | 53 | 2                            | 28 | 6                           | 6  | 36                    | 44 | 52 | 31 | 21 |
| 10                    | 5                   | 10 | 30                           | 6 | 28                          | 39 | 52                  | 52 | 2                            | 21 | 24                          | 6  | 36                    | 55 | 52 | 30 | 20 |
| 11                    | 5                   | 6  | 10                           | 6 | 29                          | 0  | 52                  | 51 | 2                            | 14 | 39                          | 6  | 37                    | 5  | 52 | 30 | 19 |
| 12                    | 5                   | 1  | 44                           | 6 | 29                          | 21 | 52                  | 50 | 2                            | 7  | 52                          | 6  | 37                    | 15 | 52 | 29 | 18 |
| 13                    | 4                   | 57 | 11                           | 6 | 29                          | 42 | 52                  | 49 | 2                            | 1  | 1                           | 6  | 37                    | 24 | 52 | 29 | 17 |
| 14                    | 4                   | 52 | 33                           | 6 | 30                          | 2  | 52                  | 48 | 1                            | 54 | 8                           | 6  | 37                    | 33 | 52 | 28 | 16 |
| 15                    | 4                   | 47 | 48                           | 6 | 30                          | 22 | 52                  | 47 | 1                            | 47 | 12                          | 6  | 37                    | 41 | 52 | 28 | 15 |
| 16                    | 4                   | 42 | 58                           | 6 | 30                          | 42 | 52                  | 46 | 1                            | 40 | 14                          | 6  | 37                    | 49 | 52 | 28 | 14 |
| 17                    | 4                   | 38 | 2                            | 6 | 31                          | 2  | 52                  | 45 | 1                            | 33 | 14                          | 6  | 37                    | 56 | 52 | 27 | 13 |
| 18                    | 4                   | 33 | 0                            | 6 | 31                          | 21 | 52                  | 45 | 1                            | 26 | 11                          | 6  | 38                    | 3  | 52 | 27 | 12 |
| 19                    | 4                   | 27 | 52                           | 6 | 31                          | 40 | 52                  | 44 | 1                            | 19 | 7                           | 6  | 38                    | 9  | 52 | 27 | 11 |
| 20                    | 4                   | 22 | 39                           | 6 | 31                          | 59 | 52                  | 43 | 1                            | 12 | 1                           | 6  | 38                    | 15 | 52 | 27 | 10 |
| 21                    | 4                   | 17 | 20                           | 6 | 32                          | 17 | 52                  | 42 | 1                            | 4  | 54                          | 6  | 38                    | 20 | 52 | 27 | 9  |
| 22                    | 4                   | 11 | 56                           | 6 | 32                          | 35 | 52                  | 42 | 0                            | 57 | 45                          | 6  | 38                    | 25 | 52 | 26 | 8  |
| 23                    | 4                   | 6  | 27                           | 6 | 32                          | 53 | 52                  | 41 | 0                            | 50 | 34                          | 6  | 38                    | 29 | 52 | 26 | 7  |
| 24                    | 4                   | 0  | 52                           | 6 | 33                          | 10 | 52                  | 40 | 0                            | 43 | 23                          | 6  | 38                    | 32 | 52 | 26 | 6  |
| 25                    | 3                   | 55 | 12                           | 6 | 33                          | 27 | 52                  | 39 | 0                            | 36 | 11                          | 6  | 38                    | 34 | 52 | 26 | 5  |
| 26                    | 3                   | 49 | 27                           | 6 | 33                          | 44 | 52                  | 39 | 0                            | 28 | 58                          | 6  | 38                    | 36 | 52 | 26 | 4  |
| 27                    | 3                   | 43 | 38                           | 6 | 34                          | 0  | 52                  | 38 | 0                            | 21 | 44                          | 6  | 38                    | 37 | 52 | 26 | 3  |
| 28                    | 3                   | 37 | 43                           | 6 | 34                          | 16 | 52                  | 37 | 0                            | 14 | 29                          | 6  | 38                    | 38 | 52 | 26 | 2  |
| 29                    | 3                   | 31 | 44                           | 6 | 34                          | 32 | 52                  | 37 | 0                            | 7  | 15                          | 6  | 38                    | 38 | 52 | 26 | 1  |
| 30                    | 3                   | 25 | 41                           | 6 | 34                          | 47 | 52                  | 36 | 0                            | 0  | 0                           | 6  | 38                    | 38 | 52 | 26 | 0  |
| trici                 | Adde                |    |                              |   |                             |    | Adde                |    |                              |    |                             |    | trici                 |    |    |    |    |
|                       | 7 Signa             |    |                              |   |                             |    | 6 Signa             |    |                              |    |                             |    |                       |    |    |    |    |



|                            |    | O Signum              |    |                     |    |                              |    | I Signum                   |    |                       |    |                     |    |                              |    |                            |    |                       |    |
|----------------------------|----|-----------------------|----|---------------------|----|------------------------------|----|----------------------------|----|-----------------------|----|---------------------|----|------------------------------|----|----------------------------|----|-----------------------|----|
| Nume-<br>rus My<br>sticus. |    | Anom. Eccen-<br>trici |    | Aequatio<br>Centri. |    | Aequatio<br>Argum.<br>maxima |    | Nume-<br>rus My<br>sticus. |    | Anom. Eccen-<br>trici |    | Aequatio<br>Centri. |    | Aequatio<br>Argum.<br>maxima |    | Nume-<br>rus My<br>sticus. |    | Anom. Eccen-<br>trici |    |
| P                          |    | I                     |    | Subtrahere          |    | P                            |    | I                          |    | P                     |    | I                   |    | Subtrahere                   |    | P                          |    | I                     |    |
| 52                         | 36 | 30                    | 0  | 0                   | 0  | 0                            | 10 | 30                         | 9  | 43                    | 46 | 2                   | 31 | 11                           | 10 | 33                         | 20 | 43                    | 39 |
| 52                         | 36 | 29                    | 1  | 0                   | 5  | 15                           | 10 | 30                         | 9  | 43                    | 46 | 2                   | 35 | 47                           | 10 | 33                         | 33 | 43                    | 39 |
| 52                         | 35 | 28                    | 2  | 0                   | 10 | 30                           | 10 | 30                         | 10 | 43                    | 45 | 2                   | 40 | 20                           | 10 | 33                         | 46 | 43                    | 38 |
| 52                         | 34 | 27                    | 3  | 0                   | 15 | 44                           | 10 | 30                         | 11 | 43                    | 45 | 2                   | 44 | 51                           | 10 | 34                         | 0  | 43                    | 38 |
| 52                         | 34 | 26                    | 4  | 0                   | 20 | 59                           | 10 | 30                         | 13 | 43                    | 45 | 2                   | 49 | 9                            | 10 | 34                         | 14 | 43                    | 38 |
| 52                         | 33 | 25                    | 5  | 0                   | 26 | 13                           | 10 | 30                         | 15 | 43                    | 45 | 2                   | 53 | 45                           | 10 | 34                         | 29 | 43                    | 37 |
| 52                         | 32 | 24                    | 6  | 0                   | 31 | 27                           | 10 | 30                         | 18 | 43                    | 45 | 2                   | 58 | 7                            | 10 | 34                         | 44 | 43                    | 37 |
| 52                         | 31 | 23                    | 7  | 0                   | 36 | 40                           | 10 | 30                         | 21 | 43                    | 45 | 3                   | 2  | 27                           | 10 | 34                         | 59 | 43                    | 36 |
| 52                         | 31 | 22                    | 8  | 0                   | 41 | 53                           | 10 | 30                         | 24 | 43                    | 45 | 3                   | 6  | 43                           | 10 | 35                         | 15 | 43                    | 36 |
| 52                         | 31 | 21                    | 9  | 0                   | 47 | 4                            | 10 | 30                         | 28 | 43                    | 45 | 3                   | 10 | 57                           | 10 | 35                         | 31 | 43                    | 35 |
| 52                         | 30 | 20                    | 10 | 0                   | 52 | 16                           | 10 | 30                         | 32 | 43                    | 45 | 3                   | 15 | 7                            | 10 | 35                         | 47 | 43                    | 35 |
| 52                         | 30 | 19                    | 11 | 0                   | 57 | 26                           | 10 | 30                         | 36 | 43                    | 45 | 3                   | 19 | 14                           | 10 | 36                         | 4  | 43                    | 34 |
| 52                         | 29 | 18                    | 12 | 1                   | 2  | 35                           | 10 | 30                         | 41 | 43                    | 45 | 3                   | 23 | 18                           | 10 | 36                         | 21 | 43                    | 34 |
| 52                         | 29 | 17                    | 13 | 1                   | 7  | 44                           | 10 | 30                         | 46 | 43                    | 44 | 3                   | 27 | 19                           | 10 | 36                         | 39 | 43                    | 33 |
| 52                         | 28 | 16                    | 14 | 1                   | 12 | 51                           | 10 | 30                         | 52 | 43                    | 44 | 3                   | 31 | 16                           | 10 | 36                         | 57 | 43                    | 33 |
| 52                         | 28 | 15                    | 15 | 1                   | 17 | 57                           | 10 | 30                         | 58 | 43                    | 44 | 3                   | 35 | 9                            | 10 | 37                         | 15 | 43                    | 32 |
| 52                         | 28 | 14                    | 16 | 1                   | 23 | 2                            | 10 | 31                         | 4  | 43                    | 44 | 3                   | 38 | 59                           | 10 | 37                         | 34 | 43                    | 31 |
| 52                         | 27 | 13                    | 17 | 1                   | 28 | 5                            | 10 | 31                         | 11 | 43                    | 43 | 3                   | 42 | 46                           | 10 | 37                         | 53 | 43                    | 31 |
| 52                         | 27 | 12                    | 18 | 1                   | 33 | 7                            | 10 | 31                         | 18 | 43                    | 43 | 3                   | 46 | 28                           | 10 | 38                         | 13 | 43                    | 30 |
| 52                         | 27 | 11                    | 19 | 1                   | 38 | 8                            | 10 | 31                         | 26 | 43                    | 43 | 3                   | 50 | 7                            | 10 | 38                         | 33 | 43                    | 30 |
| 52                         | 27 | 10                    | 20 | 1                   | 43 | 7                            | 10 | 31                         | 34 | 43                    | 43 | 3                   | 53 | 42                           | 10 | 38                         | 53 | 43                    | 29 |
| 52                         | 27 | 9                     | 21 | 1                   | 48 | 4                            | 10 | 31                         | 43 | 43                    | 42 | 3                   | 57 | 13                           | 10 | 39                         | 14 | 43                    | 28 |
| 52                         | 26 | 8                     | 22 | 1                   | 52 | 59                           | 10 | 31                         | 52 | 43                    | 42 | 4                   | 0  | 40                           | 10 | 39                         | 35 | 43                    | 28 |
| 52                         | 26 | 7                     | 23 | 1                   | 57 | 53                           | 10 | 32                         | 2  | 43                    | 42 | 4                   | 4  | 3                            | 10 | 39                         | 56 | 43                    | 27 |
| 52                         | 26 | 6                     | 24 | 2                   | 2  | 45                           | 10 | 32                         | 12 | 43                    | 42 | 4                   | 7  | 22                           | 10 | 40                         | 18 | 43                    | 26 |
| 52                         | 26 | 5                     | 25 | 2                   | 7  | 35                           | 10 | 32                         | 22 | 43                    | 41 | 4                   | 10 | 37                           | 10 | 40                         | 40 | 43                    | 26 |
| 52                         | 26 | 4                     | 26 | 2                   | 12 | 22                           | 10 | 32                         | 33 | 43                    | 41 | 4                   | 13 | 48                           | 10 | 41                         | 3  | 43                    | 25 |
| 52                         | 26 | 3                     | 27 | 2                   | 17 | 8                            | 10 | 32                         | 44 | 43                    | 41 | 4                   | 16 | 54                           | 10 | 41                         | 26 | 43                    | 24 |
| 52                         | 26 | 2                     | 28 | 2                   | 21 | 51                           | 10 | 32                         | 56 | 43                    | 40 | 4                   | 19 | 56                           | 10 | 41                         | 49 | 43                    | 23 |
| 52                         | 26 | 1                     | 29 | 2                   | 26 | 32                           | 10 | 33                         | 8  | 43                    | 40 | 4                   | 22 | 53                           | 10 | 42                         | 13 | 43                    | 23 |
| 52                         | 26 | 0                     | 30 | 2                   | 31 | 11                           | 10 | 33                         | 20 | 43                    | 39 | 4                   | 25 | 46                           | 14 | 42                         | 37 | 43                    | 22 |
|                            |    |                       |    | Adde                |    |                              |    |                            |    |                       |    | Adde                |    |                              |    |                            |    |                       |    |
|                            |    |                       |    | II Signa            |    |                              |    |                            |    |                       |    | IO Signa            |    |                              |    |                            |    |                       |    |

| Anom. Eccen- | 2 Signa          |    |                        |    |                   |    | 3 Signa          |    |                        |    |                   |    | Anom. Eccen- |    |    |    |    |
|--------------|------------------|----|------------------------|----|-------------------|----|------------------|----|------------------------|----|-------------------|----|--------------|----|----|----|----|
|              | Aequatio Centri. |    | Aequatio Argum. maxima |    | Numerus Myfticus. |    | Aequatio Centri. |    | Aequatio Argum. maxima |    | Numerus Myfticus. |    |              |    |    |    |    |
|              | Subtrahe         |    |                        |    |                   |    | Subtrahe         |    |                        |    |                   |    |              |    |    |    |    |
|              | P                | I  | II                     | P  | I                 | II | P                | I  | II                     | P  | I                 | II |              |    |    |    |    |
| 0            | 4                | 25 | 46                     | 10 | 42                | 37 | 43               | 22 | 5                      | 13 | 40                | 10 | 56           | 56 | 42 | 54 | 30 |
| 1            | 4                | 28 | 35                     | 10 | 43                | 1  | 43               | 21 | 5                      | 13 | 51                | 10 | 57           | 28 | 42 | 53 | 29 |
| 2            | 4                | 31 | 19                     | 10 | 43                | 26 | 43               | 20 | 5                      | 13 | 58                | 10 | 58           | 0  | 42 | 52 | 28 |
| 3            | 4                | 33 | 58                     | 10 | 43                | 51 | 43               | 19 | 5                      | 13 | 59                | 10 | 58           | 32 | 42 | 51 | 27 |
| 4            | 4                | 36 | 32                     | 10 | 44                | 16 | 43               | 18 | 5                      | 13 | 54                | 10 | 59           | 5  | 42 | 50 | 26 |
| 5            | 4                | 39 | 2                      | 10 | 44                | 42 | 43               | 18 | 5                      | 13 | 43                | 10 | 59           | 37 | 42 | 49 | 25 |
| 6            | 4                | 41 | 27                     | 10 | 45                | 8  | 43               | 17 | 5                      | 13 | 26                | 11 | 0            | 10 | 42 | 48 | 24 |
| 7            | 4                | 43 | 48                     | 10 | 45                | 35 | 43               | 16 | 5                      | 13 | 4                 | 11 | 0            | 42 | 42 | 47 | 23 |
| 8            | 4                | 46 | 3                      | 10 | 46                | 2  | 43               | 15 | 5                      | 12 | 36                | 11 | 1            | 15 | 42 | 46 | 22 |
| 9            | 4                | 48 | 14                     | 10 | 46                | 29 | 43               | 14 | 5                      | 12 | 2                 | 11 | 1            | 48 | 42 | 45 | 21 |
| 10           | 4                | 50 | 19                     | 10 | 46                | 57 | 43               | 13 | 5                      | 11 | 23                | 11 | 2            | 21 | 42 | 44 | 20 |
| 11           | 4                | 52 | 19                     | 10 | 47                | 25 | 43               | 13 | 5                      | 10 | 37                | 11 | 2            | 54 | 42 | 43 | 19 |
| 12           | 4                | 54 | 15                     | 10 | 47                | 52 | 43               | 12 | 5                      | 9  | 46                | 11 | 3            | 27 | 42 | 42 | 18 |
| 13           | 4                | 56 | 5                      | 10 | 48                | 20 | 43               | 11 | 5                      | 8  | 49                | 11 | 4            | 0  | 42 | 41 | 17 |
| 14           | 4                | 57 | 50                     | 10 | 48                | 48 | 43               | 10 | 5                      | 7  | 47                | 11 | 4            | 34 | 42 | 40 | 16 |
| 15           | 4                | 59 | 30                     | 10 | 49                | 17 | 43               | 9  | 5                      | 6  | 38                | 11 | 5            | 7  | 42 | 39 | 15 |
| 16           | 5                | 1  | 5                      | 10 | 49                | 46 | 43               | 8  | 5                      | 5  | 24                | 11 | 5            | 40 | 42 | 38 | 14 |
| 17           | 5                | 2  | 34                     | 10 | 50                | 15 | 43               | 7  | 5                      | 4  | 4                 | 11 | 6            | 13 | 42 | 37 | 13 |
| 18           | 5                | 3  | 58                     | 10 | 50                | 45 | 43               | 6  | 5                      | 2  | 39                | 11 | 6            | 46 | 42 | 36 | 12 |
| 19           | 5                | 5  | 17                     | 10 | 51                | 15 | 43               | 5  | 5                      | 1  | 7                 | 11 | 7            | 19 | 42 | 35 | 11 |
| 20           | 5                | 6  | 30                     | 10 | 51                | 45 | 43               | 4  | 4                      | 59 | 30                | 11 | 7            | 52 | 42 | 34 | 10 |
| 21           | 5                | 7  | 38                     | 10 | 52                | 15 | 43               | 3  | 4                      | 57 | 47                | 11 | 8            | 25 | 42 | 33 | 9  |
| 22           | 5                | 8  | 40                     | 10 | 52                | 45 | 43               | 2  | 4                      | 55 | 29                | 11 | 8            | 58 | 42 | 32 | 8  |
| 23           | 5                | 9  | 37                     | 10 | 53                | 16 | 43               | 1  | 4                      | 54 | 4                 | 11 | 9            | 30 | 42 | 31 | 7  |
| 24           | 5                | 10 | 28                     | 10 | 53                | 47 | 43               | 0  | 4                      | 52 | 5                 | 11 | 10           | 3  | 42 | 30 | 6  |
| 25           | 5                | 11 | 14                     | 10 | 54                | 18 | 42               | 59 | 4                      | 49 | 59                | 11 | 10           | 35 | 42 | 29 | 5  |
| 26           | 5                | 11 | 54                     | 10 | 54                | 49 | 42               | 58 | 4                      | 47 | 48                | 11 | 11           | 8  | 42 | 28 | 4  |
| 27           | 5                | 12 | 29                     | 10 | 55                | 21 | 42               | 57 | 4                      | 45 | 32                | 11 | 11           | 40 | 42 | 27 | 3  |
| 28           | 5                | 12 | 58                     | 10 | 55                | 52 | 42               | 56 | 4                      | 43 | 10                | 11 | 12           | 12 | 42 | 26 | 2  |
| 29           | 5                | 13 | 22                     | 10 | 56                | 24 | 42               | 55 | 4                      | 40 | 42                | 11 | 12           | 44 | 42 | 25 | 1  |
| 30           | 5                | 13 | 40                     | 10 | 56                | 56 | 42               | 54 | 4                      | 38 | 22                | 11 | 13           | 16 | 42 | 24 | 0  |
| trici        | Adde             |    |                        |    |                   |    | Adde             |    |                        |    |                   |    | trici        |    |    |    |    |
| 9 Signa      |                  |    |                        |    |                   |    | 8 Signa          |    |                        |    |                   |    |              |    |    |    |    |



| Numerus My-<br>sticus. |    | Anom. Eccen-<br>- |
|------------------------|----|-------------------|
| P                      | i  |                   |
| 42                     | 54 | 30                |
| 42                     | 53 | 29                |
| 42                     | 52 | 28                |
| 42                     | 51 | 27                |
| 42                     | 50 | 26                |
| 42                     | 49 | 25                |
| 42                     | 48 | 24                |
| 42                     | 47 | 23                |
| 42                     | 46 | 22                |
| 42                     | 45 | 21                |
| 42                     | 44 | 20                |
| 42                     | 43 | 19                |
| 42                     | 42 | 18                |
| 42                     | 41 | 17                |
| 42                     | 40 | 16                |
| 42                     | 39 | 15                |
| 42                     | 38 | 14                |
| 42                     | 37 | 13                |
| 42                     | 36 | 12                |
| 42                     | 35 | 11                |
| 42                     | 34 | 10                |
| 42                     | 33 | 9                 |
| 42                     | 32 | 8                 |
| 42                     | 31 | 7                 |
| 42                     | 30 | 6                 |
| 42                     | 29 | 5                 |
| 42                     | 28 | 4                 |
| 42                     | 27 | 3                 |
| 42                     | 26 | 2                 |
| 42                     | 25 | 1                 |
| 42                     | 24 | 0                 |

| Anom. Eccen-<br>- | 4 Signa             |    |                              |    |                             |    |    |    |
|-------------------|---------------------|----|------------------------------|----|-----------------------------|----|----|----|
|                   | Aequatio<br>Centri. |    | Aequatio<br>Argum.<br>maxima |    | Nume-<br>rus My-<br>sticus. |    |    |    |
|                   | Subtrahe            |    |                              |    |                             |    |    |    |
|                   | P                   | i  | u                            | P  | i                           | u  |    |    |
| 0                 | 4                   | 38 | 9                            | 11 | 13                          | 16 | 42 | 24 |
| 1                 | 4                   | 35 | 31                           | 11 | 13                          | 47 | 42 | 23 |
| 2                 | 4                   | 32 | 47                           | 11 | 14                          | 18 | 42 | 22 |
| 3                 | 4                   | 29 | 58                           | 11 | 14                          | 49 | 42 | 21 |
| 4                 | 4                   | 27 | 4                            | 11 | 15                          | 20 | 42 | 20 |
| 5                 | 4                   | 24 | 4                            | 11 | 15                          | 50 | 42 | 19 |
| 6                 | 4                   | 20 | 59                           | 11 | 16                          | 21 | 42 | 18 |
| 7                 | 4                   | 17 | 49                           | 11 | 16                          | 51 | 42 | 17 |
| 8                 | 4                   | 14 | 34                           | 11 | 17                          | 22 | 42 | 16 |
| 9                 | 4                   | 11 | 14                           | 11 | 17                          | 52 | 42 | 15 |
| 10                | 4                   | 7  | 49                           | 11 | 18                          | 22 | 42 | 14 |
| 11                | 4                   | 4  | 19                           | 11 | 18                          | 51 | 42 | 13 |
| 12                | 4                   | 0  | 44                           | 11 | 19                          | 20 | 42 | 12 |
| 13                | 3                   | 57 | 4                            | 11 | 19                          | 48 | 42 | 12 |
| 14                | 3                   | 53 | 19                           | 11 | 20                          | 16 | 42 | 11 |
| 15                | 3                   | 49 | 30                           | 11 | 20                          | 44 | 42 | 10 |
| 16                | 3                   | 45 | 36                           | 11 | 21                          | 11 | 42 | 9  |
| 17                | 3                   | 41 | 38                           | 11 | 21                          | 38 | 42 | 8  |
| 18                | 3                   | 37 | 35                           | 11 | 22                          | 4  | 42 | 7  |
| 19                | 3                   | 33 | 27                           | 11 | 22                          | 30 | 42 | 7  |
| 20                | 3                   | 29 | 16                           | 11 | 22                          | 55 | 42 | 6  |
| 21                | 3                   | 25 | 0                            | 11 | 23                          | 20 | 42 | 5  |
| 22                | 3                   | 20 | 40                           | 11 | 23                          | 44 | 42 | 4  |
| 23                | 3                   | 16 | 15                           | 11 | 24                          | 8  | 42 | 3  |
| 24                | 3                   | 11 | 47                           | 11 | 24                          | 32 | 42 | 3  |
| 25                | 3                   | 7  | 15                           | 11 | 24                          | 55 | 42 | 2  |
| 26                | 3                   | 2  | 39                           | 11 | 25                          | 18 | 42 | 1  |
| 27                | 2                   | 57 | 59                           | 11 | 25                          | 40 | 42 | 1  |
| 28                | 2                   | 53 | 15                           | 11 | 26                          | 1  | 42 | 0  |
| 29                | 2                   | 48 | 28                           | 11 | 26                          | 22 | 41 | 59 |
| 30                | 2                   | 43 | 38                           | 11 | 26                          | 42 | 41 | 59 |
| trici             | Adde                |    |                              |    |                             |    |    |    |
| 7 Signa           |                     |    |                              |    |                             |    |    |    |

| Anom. Eccen-<br>- | 5 Signa             |    |                              |    |                             |    |    |  |
|-------------------|---------------------|----|------------------------------|----|-----------------------------|----|----|--|
|                   | Aequatio<br>Centri. |    | Aequatio<br>Argum.<br>maxima |    | Nume-<br>rus My-<br>sticus. |    |    |  |
|                   | Subtrahe            |    |                              |    |                             |    |    |  |
|                   | P                   | i  | u                            | P  | i                           | u  |    |  |
| 2                 | 43                  | 38 | 11                           | 26 | 42                          | 41 | 59 |  |
| 2                 | 38                  | 44 | 11                           | 27 | 2                           | 41 | 58 |  |
| 2                 | 33                  | 47 | 11                           | 27 | 21                          | 41 | 58 |  |
| 2                 | 28                  | 46 | 11                           | 27 | 39                          | 41 | 57 |  |
| 2                 | 23                  | 43 | 11                           | 27 | 57                          | 41 | 57 |  |
| 2                 | 18                  | 36 | 11                           | 28 | 14                          | 41 | 56 |  |
| 2                 | 13                  | 27 | 11                           | 28 | 30                          | 41 | 56 |  |
| 2                 | 8                   | 15 | 11                           | 28 | 46                          | 41 | 55 |  |
| 2                 | 3                   | 0  | 11                           | 29 | 1                           | 41 | 55 |  |
| 1                 | 57                  | 42 | 11                           | 29 | 15                          | 41 | 54 |  |
| 1                 | 52                  | 22 | 11                           | 29 | 29                          | 41 | 54 |  |
| 1                 | 47                  | 0  | 11                           | 29 | 42                          | 41 | 53 |  |
| 1                 | 41                  | 35 | 11                           | 29 | 54                          | 41 | 53 |  |
| 1                 | 36                  | 9  | 11                           | 30 | 6                           | 41 | 53 |  |
| 1                 | 30                  | 40 | 11                           | 30 | 17                          | 41 | 52 |  |
| 1                 | 25                  | 9  | 11                           | 30 | 27                          | 41 | 52 |  |
| 1                 | 19                  | 37 | 11                           | 30 | 36                          | 41 | 52 |  |
| 1                 | 14                  | 3  | 11                           | 30 | 45                          | 41 | 51 |  |
| 1                 | 8                   | 27 | 11                           | 30 | 53                          | 41 | 51 |  |
| 1                 | 2                   | 50 | 11                           | 31 | 0                           | 41 | 51 |  |
| 0                 | 57                  | 11 | 11                           | 31 | 6                           | 41 | 51 |  |
| 0                 | 51                  | 32 | 11                           | 31 | 11                          | 41 | 50 |  |
| 0                 | 45                  | 51 | 11                           | 31 | 15                          | 41 | 50 |  |
| 0                 | 40                  | 9  | 11                           | 31 | 18                          | 41 | 50 |  |
| 0                 | 34                  | 27 | 11                           | 31 | 20                          | 41 | 50 |  |
| 0                 | 28                  | 43 | 11                           | 31 | 21                          | 41 | 50 |  |
| 0                 | 22                  | 59 | 11                           | 31 | 21                          | 41 | 50 |  |
| 0                 | 17                  | 15 | 11                           | 31 | 21                          | 41 | 50 |  |
| 0                 | 11                  | 30 | 11                           | 31 | 21                          | 41 | 50 |  |
| 0                 | 5                   | 45 | 11                           | 31 | 21                          | 41 | 50 |  |
| 0                 | 0                   | 0  | 11                           | 31 | 21                          | 41 | 50 |  |
| Adde              |                     |    |                              |    |                             |    |    |  |
| 6 Signa           |                     |    |                              |    |                             |    |    |  |

Supplementum Ephemeridum,  
Tabula Aequationum Martis Copernica.

| Anom. Eccen. | O Signum         |    |    |                        |    |  | I Signum         |    |    |                        |    |    | Anom. Eccen. |                   |   |    |    |  |  |  |
|--------------|------------------|----|----|------------------------|----|--|------------------|----|----|------------------------|----|----|--------------|-------------------|---|----|----|--|--|--|
|              | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |  | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |    |              | Numerus Myſticus. |   |    |    |  |  |  |
|              | Subtrahe         |    |    |                        |    |  | Subtrahe         |    |    |                        |    |    |              |                   |   |    |    |  |  |  |
|              | P                | I  | II | P                      | I  |  | P                | I  | II | P                      | I  |    |              | P                 | I |    |    |  |  |  |
| 0            | 0                | 0  | 0  | 36                     | 54 |  | 14               | 27 |    | 5                      | 9  | 16 | 37           | 15                |   | 14 | 14 |  |  |  |
| 1            | 0                | 10 | 42 | 36                     | 54 |  | 14               | 27 |    | 5                      | 18 | 46 | 37           | 15                |   | 14 | 13 |  |  |  |
| 2            | 0                | 21 | 24 | 36                     | 54 |  | 14               | 27 |    | 5                      | 28 | 11 | 37           | 17                |   | 14 | 12 |  |  |  |
| 3            | 0                | 32 | 5  | 36                     | 54 |  | 14               | 27 |    | 5                      | 37 | 31 | 37           | 19                |   | 14 | 11 |  |  |  |
| 4            | 0                | 42 | 46 | 36                     | 55 |  | 14               | 27 |    | 5                      | 40 | 46 | 37           | 20                |   | 14 | 11 |  |  |  |
| 5            | 0                | 53 | 26 | 36                     | 55 |  | 14               | 27 |    | 5                      | 55 | 56 | 37           | 21                |   | 14 | 10 |  |  |  |
| 6            | 1                | 4  | 6  | 36                     | 55 |  | 14               | 27 |    | 6                      | 5  | 1  | 37           | 23                |   | 14 | 9  |  |  |  |
| 7            | 1                | 14 | 44 | 36                     | 55 |  | 14               | 27 |    | 6                      | 14 | 0  | 37           | 24                |   | 14 | 8  |  |  |  |
| 8            | 1                | 25 | 22 | 36                     | 56 |  | 14               | 27 |    | 6                      | 22 | 53 | 37           | 26                |   | 14 | 7  |  |  |  |
| 9            | 1                | 35 | 58 | 36                     | 56 |  | 14               | 26 |    | 6                      | 31 | 41 | 37           | 27                |   | 14 | 6  |  |  |  |
| 10           | 1                | 46 | 33 | 36                     | 56 |  | 14               | 26 |    | 6                      | 40 | 23 | 37           | 29                |   | 14 | 5  |  |  |  |
| 11           | 1                | 57 | 6  | 36                     | 57 |  | 14               | 26 |    | 6                      | 48 | 59 | 37           | 31                |   | 14 | 4  |  |  |  |
| 12           | 2                | 7  | 38 | 36                     | 57 |  | 14               | 26 |    | 6                      | 57 | 28 | 37           | 33                |   | 14 | 3  |  |  |  |
| 13           | 2                | 18 | 7  | 36                     | 58 |  | 14               | 25 |    | 7                      | 5  | 52 | 37           | 35                |   | 14 | 1  |  |  |  |
| 14           | 2                | 28 | 35 | 36                     | 58 |  | 14               | 25 |    | 7                      | 14 | 9  | 37           | 37                |   | 14 | 0  |  |  |  |
| 15           | 2                | 39 | 1  | 36                     | 59 |  | 14               | 24 |    | 7                      | 22 | 19 | 37           | 39                |   | 13 | 59 |  |  |  |
| 16           | 2                | 49 | 24 | 36                     | 59 |  | 14               | 24 |    | 7                      | 30 | 23 | 37           | 41                |   | 13 | 58 |  |  |  |
| 17           | 2                | 59 | 44 | 37                     | 0  |  | 14               | 23 |    | 7                      | 38 | 20 | 37           | 43                |   | 13 | 56 |  |  |  |
| 18           | 3                | 10 | 2  | 37                     | 1  |  | 14               | 23 |    | 7                      | 46 | 9  | 37           | 45                |   | 13 | 55 |  |  |  |
| 19           | 3                | 20 | 17 | 37                     | 2  |  | 14               | 22 |    | 7                      | 53 | 52 | 37           | 48                |   | 13 | 53 |  |  |  |
| 20           | 3                | 30 | 30 | 37                     | 3  |  | 14               | 22 |    | 8                      | 1  | 27 | 37           | 50                |   | 13 | 52 |  |  |  |
| 21           | 3                | 40 | 39 | 37                     | 4  |  | 14               | 22 |    | 8                      | 8  | 56 | 37           | 52                |   | 13 | 50 |  |  |  |
| 22           | 3                | 50 | 45 | 37                     | 5  |  | 14               | 21 |    | 8                      | 16 | 16 | 37           | 55                |   | 13 | 49 |  |  |  |
| 23           | 4                | 0  | 47 | 37                     | 6  |  | 14               | 20 |    | 8                      | 23 | 29 | 37           | 57                |   | 13 | 47 |  |  |  |
| 24           | 4                | 10 | 46 | 37                     | 7  |  | 14               | 19 |    | 8                      | 30 | 35 | 38           | 0                 |   | 13 | 46 |  |  |  |
| 25           | 4                | 20 | 41 | 37                     | 8  |  | 14               | 18 |    | 8                      | 37 | 32 | 38           | 3                 |   | 13 | 44 |  |  |  |
| 26           | 4                | 30 | 32 | 37                     | 9  |  | 14               | 18 |    | 8                      | 44 | 21 | 38           | 5                 |   | 13 | 42 |  |  |  |
| 27           | 4                | 40 | 20 | 37                     | 10 |  | 14               | 17 |    | 8                      | 51 | 2  | 38           | 8                 |   | 13 | 40 |  |  |  |
| 28           | 4                | 50 | 3  | 37                     | 12 |  | 14               | 16 |    | 8                      | 57 | 35 | 38           | 11                |   | 13 | 38 |  |  |  |
| 29           | 4                | 59 | 42 | 37                     | 13 |  | 14               | 15 |    | 9                      | 3  | 59 | 38           | 14                |   | 13 | 37 |  |  |  |
| 30           | 5                | 9  | 16 | 37                     | 15 |  | 14               | 14 |    | 9                      | 10 | 15 | 38           | 17                |   | 13 | 35 |  |  |  |
| trici        | Adde             |    |    |                        |    |  | Adde             |    |    |                        |    |    | trici        |                   |   |    |    |  |  |  |
| II Signa     |                  |    |    |                        |    |  | IO Signa         |    |    |                        |    |    |              |                   |   |    |    |  |  |  |



# Ac Tab. Secundorum Mobilium.

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## Tabula Aequationum Martis Copernicæ.

| Numerus My-<br>sticus. |    | Anom. Ecclen. |
|------------------------|----|---------------|
| P                      | i  |               |
| 14                     | 14 | 30            |
| 14                     | 13 | 29            |
| 14                     | 12 | 28            |
| 14                     | 11 | 27            |
| 14                     | 10 | 26            |
| 14                     | 9  | 25            |
| 14                     | 8  | 24            |
| 14                     | 7  | 23            |
| 14                     | 6  | 22            |
| 14                     | 5  | 21            |
| 14                     | 4  | 20            |
| 14                     | 3  | 19            |
| 14                     | 2  | 18            |
| 14                     | 1  | 17            |
| 14                     | 0  | 16            |
| 13                     | 59 | 15            |
| 13                     | 58 | 14            |
| 13                     | 56 | 13            |
| 13                     | 55 | 12            |
| 13                     | 53 | 11            |
| 13                     | 52 | 10            |
| 13                     | 50 | 9             |
| 13                     | 49 | 8             |
| 13                     | 47 | 7             |
| 13                     | 46 | 6             |
| 13                     | 44 | 5             |
| 13                     | 42 | 4             |
| 13                     | 40 | 3             |
| 13                     | 38 | 2             |
| 13                     | 37 | 1             |
| 13                     | 35 | 0             |

| 2 Signa             |          |                              | 3 Signa             |       |                              |
|---------------------|----------|------------------------------|---------------------|-------|------------------------------|
| Aequatio<br>Centri. |          | Aequatio<br>Argum.<br>maxima | Aequatio<br>Centri. |       | Aequatio<br>Argum.<br>maxima |
| Subtrahere          |          |                              | Subtrahere          |       |                              |
| P                   | i        | P                            | P                   | i     | P                            |
| 0                   | 9 10 15  | 38 17                        | 11                  | 3 3   | 40 11                        |
| 1                   | 9 16 22  | 38 20                        | 11                  | 4 2   | 40 16                        |
| 2                   | 9 22 28  | 38 23                        | 11                  | 4 49  | 40 20                        |
| 3                   | 9 28 34  | 38 26                        | 11                  | 5 24  | 40 25                        |
| 4                   | 9 33 40  | 38 30                        | 11                  | 5 48  | 40 30                        |
| 5                   | 9 39 46  | 38 33                        | 11                  | 5 59  | 40 35                        |
| 6                   | 9 44 52  | 38 37                        | 11                  | 5 59  | 40 40                        |
| 7                   | 9 49 58  | 38 40                        | 11                  | 5 46  | 40 45                        |
| 8                   | 9 55 4   | 38 43                        | 11                  | 5 22  | 40 50                        |
| 9                   | 9 59 56  | 38 47                        | 11                  | 4 45  | 40 55                        |
| 10                  | 10 4 41  | 38 50                        | 11                  | 3 57  | 41 0                         |
| 11                  | 10 9 15  | 38 54                        | 11                  | 2 56  | 41 5                         |
| 12                  | 10 13 49 | 38 57                        | 11                  | 1 42  | 41 10                        |
| 13                  | 10 17 55 | 39 1                         | 11                  | 0 17  | 41 16                        |
| 14                  | 10 22 9  | 39 4                         | 10                  | 58 39 | 41 21                        |
| 15                  | 10 25 54 | 39 8                         | 10                  | 56 49 | 41 26                        |
| 16                  | 10 29 38 | 39 12                        | 10                  | 54 46 | 41 32                        |
| 17                  | 10 33 12 | 39 16                        | 10                  | 52 31 | 41 37                        |
| 18                  | 10 36 35 | 39 19                        | 10                  | 50 3  | 41 42                        |
| 19                  | 10 39 48 | 39 23                        | 10                  | 47 13 | 41 48                        |
| 20                  | 10 42 50 | 39 27                        | 10                  | 44 30 | 41 53                        |
| 21                  | 10 45 41 | 39 31                        | 10                  | 41 25 | 41 58                        |
| 22                  | 10 48 22 | 39 35                        | 10                  | 38 7  | 42 4                         |
| 23                  | 10 50 51 | 39 39                        | 10                  | 34 37 | 42 9                         |
| 24                  | 10 53 9  | 39 44                        | 10                  | 30 54 | 42 15                        |
| 25                  | 10 55 17 | 39 48                        | 10                  | 26 59 | 42 21                        |
| 26                  | 10 57 13 | 39 53                        | 10                  | 22 51 | 42 27                        |
| 27                  | 10 58 58 | 39 57                        | 10                  | 18 31 | 42 32                        |
| 28                  | 11 0 31  | 40 2                         | 10                  | 13 58 | 42 38                        |
| 29                  | 11 1 53  | 40 6                         | 10                  | 9 12  | 42 44                        |
| 30                  | 11 3 3   | 40 11                        | 10                  | 4 14  | 42 50                        |
| Adde                |          |                              | Adde                |       |                              |
| 9 Signa             |          |                              | 8 Signa             |       |                              |



| 4 Signa      |                  |    |    |                        |    |    |                    |    |    | 5 Signa      |                  |    |    |                        |    |    |                    |    |    |
|--------------|------------------|----|----|------------------------|----|----|--------------------|----|----|--------------|------------------|----|----|------------------------|----|----|--------------------|----|----|
| Anom. Eccen- | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |    | Numerus My sticus. |    |    | Anom. Eccen- | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |    | Numerus My sticus. |    |    |
|              | Subtrahe         |    |    |                        |    |    |                    |    |    |              | Subtrahe         |    |    |                        |    |    |                    |    |    |
|              | P                | I  | II | P                      | I  | II | P                  | I  | II |              | P                | I  | II | P                      | I  | II | P                  | I  | II |
| 0            | 10               | 4  | 14 | 42                     | 50 |    | 10                 | 59 |    | 0            | 6                | 4  | 31 | 45                     | 28 |    | 9                  | 39 | 30 |
| 1            | 9                | 59 | 4  | 42                     | 56 |    | 10                 | 56 |    | 1            | 5                | 53 | 50 | 45                     | 32 |    | 9                  | 37 | 29 |
| 2            | 9                | 53 | 41 | 43                     | 1  |    | 10                 | 53 |    | 2            | 5                | 43 | 1  | 45                     | 36 |    | 9                  | 35 | 28 |
| 3            | 9                | 48 | 16 | 43                     | 7  |    | 10                 | 50 |    | 3            | 5                | 32 | 3  | 45                     | 40 |    | 9                  | 33 | 27 |
| 4            | 9                | 42 | 19 | 43                     | 13 |    | 10                 | 47 |    | 4            | 5                | 20 | 57 | 45                     | 44 |    | 9                  | 31 | 26 |
| 5            | 9                | 36 | 19 | 43                     | 19 |    | 10                 | 44 |    | 5            | 5                | 9  | 44 | 45                     | 48 |    | 9                  | 30 | 25 |
| 6            | 9                | 30 | 7  | 43                     | 24 |    | 10                 | 41 |    | 6            | 4                | 58 | 23 | 45                     | 51 |    | 9                  | 28 | 24 |
| 7            | 9                | 23 | 43 | 43                     | 30 |    | 10                 | 39 |    | 7            | 4                | 46 | 54 | 45                     | 55 |    | 9                  | 26 | 23 |
| 8            | 9                | 17 | 7  | 43                     | 36 |    | 10                 | 36 |    | 8            | 4                | 35 | 18 | 45                     | 58 |    | 9                  | 25 | 22 |
| 9            | 9                | 10 | 19 | 43                     | 41 |    | 10                 | 33 |    | 9            | 4                | 23 | 35 | 46                     | 2  |    | 9                  | 23 | 21 |
| 10           | 9                | 3  | 19 | 43                     | 47 |    | 10                 | 30 |    | 10           | 4                | 11 | 46 | 46                     | 5  |    | 9                  | 21 | 20 |
| 11           | 8                | 56 | 7  | 43                     | 52 |    | 10                 | 27 |    | 11           | 3                | 59 | 51 | 46                     | 8  |    | 9                  | 20 | 19 |
| 12           | 8                | 48 | 43 | 43                     | 58 |    | 10                 | 24 |    | 12           | 3                | 47 | 49 | 46                     | 11 |    | 9                  | 18 | 18 |
| 13           | 8                | 41 | 8  | 44                     | 3  |    | 10                 | 21 |    | 13           | 3                | 35 | 42 | 46                     | 14 |    | 9                  | 17 | 17 |
| 14           | 8                | 33 | 21 | 44                     | 9  |    | 10                 | 18 |    | 14           | 3                | 23 | 29 | 46                     | 16 |    | 9                  | 16 | 16 |
| 15           | 8                | 25 | 23 | 44                     | 14 |    | 10                 | 15 |    | 15           | 3                | 11 | 12 | 46                     | 19 |    | 9                  | 15 | 15 |
| 16           | 8                | 17 | 13 | 44                     | 19 |    | 10                 | 13 |    | 16           | 2                | 58 | 49 | 46                     | 21 |    | 9                  | 14 | 14 |
| 17           | 8                | 8  | 53 | 44                     | 24 |    | 10                 | 10 |    | 17           | 2                | 46 | 22 | 46                     | 23 |    | 9                  | 13 | 13 |
| 18           | 8                | 0  | 21 | 44                     | 30 |    | 10                 | 8  |    | 18           | 2                | 33 | 50 | 46                     | 25 |    | 9                  | 12 | 12 |
| 19           | 7                | 51 | 38 | 44                     | 35 |    | 10                 | 5  |    | 19           | 2                | 21 | 15 | 46                     | 27 |    | 9                  | 11 | 11 |
| 20           | 7                | 42 | 44 | 44                     | 40 |    | 10                 | 2  |    | 20           | 2                | 8  | 36 | 46                     | 29 |    | 9                  | 10 | 10 |
| 21           | 7                | 33 | 40 | 44                     | 45 |    | 10                 | 0  |    | 21           | 1                | 55 | 54 | 46                     | 30 |    | 9                  | 9  | 9  |
| 22           | 7                | 24 | 25 | 44                     | 50 |    | 9                  | 57 |    | 22           | 1                | 43 | 9  | 46                     | 32 |    | 9                  | 9  | 8  |
| 23           | 7                | 15 | 0  | 44                     | 55 |    | 9                  | 55 |    | 23           | 1                | 30 | 21 | 46                     | 33 |    | 9                  | 8  | 7  |
| 24           | 7                | 5  | 25 | 45                     | 0  |    | 9                  | 53 |    | 24           | 1                | 17 | 31 | 46                     | 34 |    | 9                  | 8  | 6  |
| 25           | 6                | 55 | 40 | 45                     | 5  |    | 9                  | 51 |    | 25           | 1                | 4  | 39 | 46                     | 35 |    | 9                  | 7  | 5  |
| 26           | 6                | 45 | 45 | 45                     | 9  |    | 9                  | 48 |    | 26           | 0                | 51 | 45 | 46                     | 36 |    | 9                  | 7  | 4  |
| 27           | 6                | 35 | 41 | 45                     | 14 |    | 9                  | 46 |    | 27           | 0                | 38 | 50 | 46                     | 37 |    | 9                  | 7  | 3  |
| 28           | 6                | 25 | 27 | 45                     | 19 |    | 9                  | 43 |    | 28           | 0                | 25 | 54 | 46                     | 37 |    | 9                  | 6  | 2  |
| 29           | 6                | 15 | 4  | 45                     | 23 |    | 9                  | 41 |    | 29           | 0                | 12 | 57 | 46                     | 38 |    | 9                  | 6  | 1  |
| 30           | 6                | 4  | 31 | 45                     | 28 |    | 9                  | 39 |    | 30           | 0                | 0  | 0  | 46                     | 38 |    | 9                  | 6  | 0  |
| trici        | Adde             |    |    |                        |    |    |                    |    |    | trici        | Adde             |    |    |                        |    |    |                    |    |    |
| 7 Signa      |                  |    |    |                        |    |    |                    |    |    | 6 Signa      |                  |    |    |                        |    |    |                    |    |    |



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Tabula Aequationum Veneris Copernicea.

| Nume-<br>rus My-<br>sticus. | Anom. Eccen-<br>- |
|-----------------------------|-------------------|
| P                           |                   |
| 9 39                        | 30                |
| 9 37                        | 29                |
| 9 35                        | 28                |
| 9 33                        | 27                |
| 9 31                        | 26                |
| 9 30                        | 25                |
| 9 28                        | 24                |
| 9 26                        | 23                |
| 9 25                        | 22                |
| 9 23                        | 21                |
| 9 21                        | 20                |
| 9 20                        | 19                |
| 9 18                        | 18                |
| 9 17                        | 17                |
| 9 16                        | 16                |
| 9 15                        | 15                |
| 9 14                        | 14                |
| 9 13                        | 13                |
| 9 12                        | 12                |
| 9 11                        | 11                |
| 9 10                        | 10                |
| 9 9                         | 9                 |
| 9 8                         | 8                 |
| 9 8                         | 7                 |
| 9 8                         | 6                 |
| 9 7                         | 5                 |
| 9 7                         | 4                 |
| 9 7                         | 3                 |
| 9 6                         | 2                 |
| 9 6                         | 1                 |
| 9 6                         | 0                 |
|                             | trici             |

| O Signum            |                              |                             | I Signum            |                              |                             |
|---------------------|------------------------------|-----------------------------|---------------------|------------------------------|-----------------------------|
| Aequatio<br>Centri. | Aequatio<br>Argum.<br>maxima | Nume-<br>rus My-<br>sticus. | Aequatio<br>Centri. | Aequatio<br>Argum.<br>maxima | Nume-<br>rus My-<br>sticus. |
| Subtrahe            |                              |                             | Subtrahe            |                              |                             |
| P                   | P                            | P                           | P                   | P                            | P                           |
| 0 0 0               | 45 10                        | 9 48                        | 0 59 25             | 45 15                        | 9 45                        |
| 1 0 2 4             | 45 10                        | 9 48                        | 1 1 13              | 45 16                        | 9 45                        |
| 2 0 4 8             | 45 10                        | 9 48                        | 1 3 0               | 45 16                        | 9 45                        |
| 3 0 6 13            | 45 10                        | 9 48                        | 1 4 45              | 45 16                        | 9 45                        |
| 4 0 8 17            | 45 10                        | 9 48                        | 1 6 30              | 45 17                        | 9 44                        |
| 5 0 10 20           | 45 11                        | 9 47                        | 1 8 13              | 45 17                        | 9 44                        |
| 6 0 12 24           | 45 11                        | 9 47                        | 1 9 55              | 45 18                        | 9 44                        |
| 7 0 14 28           | 45 11                        | 9 47                        | 1 11 35             | 45 18                        | 9 44                        |
| 8 0 16 31           | 45 11                        | 9 47                        | 1 13 15             | 45 19                        | 9 44                        |
| 9 0 18 34           | 45 11                        | 9 47                        | 1 14 53             | 45 19                        | 9 43                        |
| 10 0 20 36          | 45 11                        | 9 47                        | 1 16 30             | 45 20                        | 9 43                        |
| 11 0 22 38          | 45 11                        | 9 47                        | 1 18 5              | 45 20                        | 9 43                        |
| 12 0 24 40          | 45 12                        | 9 47                        | 1 19 39             | 45 21                        | 9 43                        |
| 13 0 26 42          | 45 12                        | 9 47                        | 1 21 12             | 45 21                        | 9 43                        |
| 14 0 28 43          | 45 12                        | 9 47                        | 1 22 43             | 45 22                        | 9 42                        |
| 15 0 30 43          | 45 12                        | 9 47                        | 1 24 13             | 45 23                        | 9 42                        |
| 16 0 32 43          | 45 12                        | 9 47                        | 1 25 41             | 45 23                        | 9 42                        |
| 17 0 34 42          | 45 12                        | 9 46                        | 1 27 8              | 45 24                        | 9 41                        |
| 18 0 36 41          | 45 13                        | 9 46                        | 1 28 33             | 45 24                        | 9 41                        |
| 19 0 38 39          | 45 13                        | 9 46                        | 1 29 57             | 45 25                        | 9 41                        |
| 20 0 40 37          | 45 13                        | 9 46                        | 1 31 19             | 45 26                        | 9 40                        |
| 21 0 42 33          | 45 13                        | 9 46                        | 1 32 39             | 45 26                        | 9 40                        |
| 22 0 44 29          | 45 14                        | 9 46                        | 1 33 58             | 45 27                        | 9 40                        |
| 23 0 46 24          | 45 14                        | 9 46                        | 1 35 15             | 45 27                        | 9 39                        |
| 24 0 48 19          | 45 14                        | 9 46                        | 1 36 31             | 45 28                        | 9 39                        |
| 25 0 50 12          | 45 14                        | 9 46                        | 1 37 44             | 45 29                        | 9 39                        |
| 26 0 52 5           | 45 14                        | 9 46                        | 1 38 56             | 45 29                        | 9 38                        |
| 27 0 53 56          | 45 15                        | 9 46                        | 1 40 6              | 45 30                        | 9 38                        |
| 28 0 55 47          | 45 15                        | 9 46                        | 1 41 15             | 45 30                        | 9 38                        |
| 29 0 57 37          | 45 15                        | 9 45                        | 1 42 21             | 45 31                        | 9 37                        |
| 30 0 59 25          | 45 15                        | 9 45                        | 1 43 26             | 45 32                        | 9 37                        |
| Adde                |                              |                             | Adde                |                              |                             |
| II Signa            |                              |                             | IO Signa            |                              |                             |
|                     |                              |                             | O 2                 |                              |                             |

| Anom. Eccen- | 2 Signa          |                        |                   | 3 Signa          |                        |                   | Anom. Eccen- |
|--------------|------------------|------------------------|-------------------|------------------|------------------------|-------------------|--------------|
|              | Aequatio Centri. | Aequatio Argum. maxima | Numérus Myfticus. | Aequatio Centri. | Aequatio Argum. maxima | Numérus Myfticus. |              |
|              | Subtrahe         |                        |                   | Subtrahe         |                        |                   |              |
|              | P' / "           | P' / "                 | P' / "            | P' / "           | P' / "                 | P' / "            |              |
| 0            | 1 43 26          | 45 32                  | 9 37              | 2 0 16           | 45 56                  | 9 26              | 30           |
| 1            | 1 44 29          | 45 32                  | 9 37              | 2 0 17           | 45 57                  | 9 25              | 29           |
| 2            | 1 45 30          | 45 33                  | 9 36              | 2 0 16           | 45 58                  | 9 25              | 28           |
| 3            | 1 46 29          | 45 34                  | 9 36              | 2 0 12           | 45 59                  | 9 24              | 27           |
| 4            | 1 47 26          | 45 35                  | 9 36              | 2 0 6            | 46 0                   | 9 24              | 26           |
| 5            | 1 48 22          | 45 36                  | 9 35              | 1 59 58          | 46 1                   | 9 23              | 25           |
| 6            | 1 49 15          | 45 36                  | 9 35              | 1 59 47          | 46 2                   | 9 23              | 24           |
| 7            | 1 50 6           | 45 37                  | 9 35              | 1 59 35          | 46 3                   | 9 22              | 23           |
| 8            | 1 50 56          | 45 38                  | 9 34              | 1 59 20          | 46 4                   | 9 22              | 22           |
| 9            | 1 51 43          | 45 39                  | 9 34              | 1 59 3           | 46 5                   | 9 21              | 21           |
| 10           | 1 52 29          | 45 40                  | 9 34              | 1 58 44          | 46 6                   | 9 21              | 20           |
| 11           | 1 53 12          | 45 40                  | 9 33              | 1 58 23          | 46 7                   | 9 20              | 19           |
| 12           | 1 53 53          | 45 41                  | 9 33              | 1 58 0           | 46 8                   | 9 20              | 18           |
| 13           | 1 54 33          | 45 42                  | 9 32              | 1 57 34          | 46 9                   | 9 20              | 17           |
| 14           | 1 55 10          | 45 43                  | 9 32              | 1 57 6           | 46 10                  | 9 19              | 16           |
| 15           | 1 55 45          | 45 44                  | 9 32              | 1 56 36          | 46 11                  | 9 19              | 15           |
| 16           | 1 56 18          | 45 44                  | 9 31              | 1 56 4           | 46 11                  | 9 18              | 14           |
| 17           | 1 56 49          | 45 45                  | 9 31              | 1 55 30          | 46 12                  | 9 18              | 13           |
| 18           | 1 57 18          | 45 46                  | 9 30              | 1 54 54          | 46 13                  | 9 18              | 12           |
| 19           | 1 57 45          | 45 47                  | 9 30              | 1 54 15          | 46 14                  | 9 17              | 11           |
| 20           | 1 58 9           | 45 48                  | 9 30              | 1 53 35          | 46 15                  | 9 17              | 10           |
| 21           | 1 58 32          | 45 48                  | 9 29              | 1 52 52          | 46 16                  | 9 16              | 9            |
| 22           | 1 58 52          | 45 49                  | 9 29              | 1 52 7           | 46 17                  | 9 16              | 8            |
| 23           | 1 59 10          | 45 50                  | 9 28              | 1 51 20          | 46 18                  | 9 15              | 7            |
| 24           | 1 59 26          | 45 51                  | 9 28              | 1 50 31          | 46 19                  | 9 15              | 6            |
| 25           | 1 59 40          | 45 52                  | 9 28              | 1 49 40          | 46 20                  | 9 14              | 5            |
| 26           | 1 59 52          | 45 52                  | 9 27              | 1 48 47          | 46 21                  | 9 14              | 4            |
| 27           | 2 0 1            | 45 53                  | 9 27              | 1 47 52          | 46 21                  | 9 14              | 3            |
| 28           | 2 0 8            | 45 54                  | 9 26              | 1 46 55          | 46 22                  | 9 13              | 2            |
| 29           | 2 0 13           | 45 55                  | 9 26              | 1 45 46          | 46 23                  | 9 13              | 1            |
| 30           | 2 0 16           | 45 56                  | 9 26              | 1 44 55          | 46 24                  | 9 12              | 0            |
| trici        | Adde             |                        |                   | Adde             |                        |                   | trici        |
|              | 9 Signa          |                        |                   | 8 Signa          |                        |                   |              |



# Ac Tab. Secundorum Mobilium.

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## Tabula Aequationum Veneris Copernicæ.

| Numerus My-<br>sticus. |    | Anom. Eccen- |
|------------------------|----|--------------|
| P                      | I  |              |
| 9                      | 26 | 30           |
| 9                      | 25 | 29           |
| 9                      | 25 | 28           |
| 9                      | 24 | 27           |
| 9                      | 24 | 26           |
| 9                      | 23 | 25           |
| 9                      | 23 | 24           |
| 9                      | 22 | 23           |
| 9                      | 22 | 22           |
| 9                      | 21 | 21           |
| 9                      | 21 | 20           |
| 9                      | 20 | 19           |
| 9                      | 20 | 18           |
| 9                      | 20 | 17           |
| 9                      | 19 | 16           |
| 9                      | 19 | 15           |
| 9                      | 18 | 14           |
| 9                      | 18 | 13           |
| 9                      | 18 | 12           |
| 9                      | 17 | 11           |
| 9                      | 17 | 10           |
| 9                      | 16 | 9            |
| 9                      | 16 | 8            |
| 9                      | 15 | 7            |
| 9                      | 15 | 6            |
| 9                      | 14 | 5            |
| 9                      | 14 | 4            |
| 9                      | 14 | 3            |
| 9                      | 13 | 2            |
| 9                      | 13 | 1            |
| 9                      | 12 | 0            |
|                        |    | trici        |

| 4 Signa             |         | 5 Signa             |      |
|---------------------|---------|---------------------|------|
| Aequatio<br>Centri. |         | Aequatio<br>Centri. |      |
| Subtrahe            |         | Subtrahe            |      |
| P                   | I       | P                   | I    |
| 0                   | 1 44 55 | 46 24               | 9 12 |
| 1                   | 1 43 52 | 46 25               | 9 12 |
| 2                   | 1 42 47 | 46 25               | 9 12 |
| 3                   | 1 41 40 | 46 26               | 9 11 |
| 4                   | 1 40 31 | 46 27               | 9 11 |
| 5                   | 1 39 21 | 46 28               | 9 11 |
| 6                   | 1 38 8  | 46 28               | 9 10 |
| 7                   | 1 36 54 | 46 29               | 9 10 |
| 8                   | 1 35 38 | 46 30               | 9 9  |
| 9                   | 1 34 20 | 46 31               | 9 9  |
| 10                  | 1 33 0  | 46 32               | 9 9  |
| 11                  | 1 31 38 | 46 32               | 9 8  |
| 12                  | 1 30 15 | 46 33               | 9 8  |
| 13                  | 1 28 50 | 46 34               | 9 8  |
| 14                  | 1 27 24 | 46 34               | 9 7  |
| 15                  | 1 25 56 | 46 35               | 9 7  |
| 16                  | 1 24 26 | 46 35               | 9 7  |
| 17                  | 1 22 54 | 46 36               | 9 6  |
| 18                  | 1 21 21 | 46 37               | 9 6  |
| 19                  | 1 19 47 | 46 37               | 9 6  |
| 20                  | 1 18 11 | 46 38               | 9 6  |
| 21                  | 1 16 33 | 46 38               | 9 5  |
| 22                  | 1 14 54 | 46 39               | 9 5  |
| 23                  | 1 13 14 | 46 40               | 9 5  |
| 24                  | 1 11 32 | 46 40               | 9 5  |
| 25                  | 1 9 49  | 46 41               | 9 5  |
| 26                  | 1 8 5   | 46 41               | 9 5  |
| 27                  | 1 6 19  | 46 42               | 9 5  |
| 28                  | 1 4 32  | 46 43               | 9 4  |
| 29                  | 1 2 44  | 46 43               | 9 4  |
| 30                  | 1 0 54  | 46 44               | 9 4  |
| Adde                |         | Adde                |      |
| 7 Signa             |         | 6 Signa             |      |
| P                   | I       | P                   | I    |
| 1                   | 0 54    | 46 44               | 9 4  |
| 0                   | 59 4    | 46 44               | 9 4  |
| 0                   | 57 12   | 46 45               | 9 3  |
| 0                   | 55 19   | 46 45               | 9 3  |
| 0                   | 53 25   | 46 46               | 9 3  |
| 0                   | 51 31   | 46 46               | 9 3  |
| 0                   | 49 35   | 46 46               | 9 2  |
| 0                   | 47 38   | 46 47               | 9 2  |
| 0                   | 45 40   | 46 47               | 9 2  |
| 0                   | 43 42   | 46 47               | 9 2  |
| 0                   | 41 42   | 46 47               | 9 2  |
| 0                   | 39 42   | 46 48               | 9 1  |
| 0                   | 37 41   | 46 48               | 9 1  |
| 0                   | 35 40   | 46 48               | 9 1  |
| 0                   | 33 37   | 46 48               | 9 1  |
| 0                   | 31 34   | 46 49               | 9 1  |
| 0                   | 29 31   | 46 49               | 9 1  |
| 0                   | 27 27   | 46 49               | 9 1  |
| 0                   | 25 22   | 46 49               | 9 1  |
| 0                   | 23 17   | 46 50               | 9 1  |
| 0                   | 21 11   | 46 50               | 9 1  |
| 0                   | 19 5    | 46 50               | 9 1  |
| 0                   | 16 59   | 46 50               | 9 0  |
| 0                   | 14 52   | 46 50               | 9 0  |
| 0                   | 12 45   | 46 51               | 9 0  |
| 0                   | 10 38   | 46 51               | 9 0  |
| 0                   | 8 31    | 46 51               | 9 0  |
| 0                   | 6 23    | 46 51               | 9 0  |
| 0                   | 4 16    | 46 51               | 9 0  |
| 0                   | 2 8     | 46 51               | 9 0  |
| 0                   | 0 0     | 46 51               | 9 0  |
| Adde                |         | Adde                |      |
| 7 Signa             |         | 6 Signa             |      |
| P                   | I       | P                   | I    |
| 0                   | 3       |                     |      |

| Anom. Eccen. | O Signum         |    |    |                        |    |          | I Signum         |   |    |                        |    |    | Anom. Eccen. |    |    |
|--------------|------------------|----|----|------------------------|----|----------|------------------|---|----|------------------------|----|----|--------------|----|----|
|              | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |          | Aequatio Centri. |   |    | Aequatio Argum. maxima |    |    |              |    |    |
|              | Subtrahere       |    |    |                        |    |          | Subtrahere       |   |    |                        |    |    |              |    |    |
|              | P                | r  | u  | P                      | r  | u        | P                | r | u  | P                      | r  | u  |              |    |    |
| 0            | 0                | 0  | 0  | 19                     | 3  | 30       | 31               | 1 | 25 | 5                      | 19 | 49 | 29           | 35 | 30 |
| 1            | 0                | 2  | 52 | 19                     | 3  | 30       | 31               | 1 | 25 | 39                     | 19 | 52 | 29           | 31 | 29 |
| 2            | 0                | 5  | 44 | 19                     | 3  | 30       | 30               | 1 | 28 | 11                     | 19 | 55 | 29           | 28 | 28 |
| 3            | 0                | 8  | 36 | 19                     | 4  | 30       | 30               | 1 | 30 | 43                     | 19 | 58 | 29           | 24 | 27 |
| 4            | 0                | 11 | 28 | 19                     | 4  | 30       | 30               | 1 | 33 | 13                     | 20 | 1  | 29           | 20 | 26 |
| 5            | 0                | 13 | 19 | 19                     | 5  | 30       | 29               | 1 | 35 | 42                     | 20 | 4  | 29           | 17 | 25 |
| 6            | 0                | 17 | 11 | 19                     | 5  | 30       | 29               | 1 | 38 | 9                      | 20 | 7  | 29           | 13 | 24 |
| 7            | 0                | 20 | 2  | 19                     | 6  | 30       | 28               | 1 | 40 | 35                     | 20 | 10 | 29           | 9  | 23 |
| 8            | 0                | 22 | 53 | 19                     | 7  | 30       | 27               | 1 | 43 | 0                      | 20 | 13 | 29           | 5  | 22 |
| 9            | 0                | 25 | 44 | 19                     | 8  | 30       | 26               | 1 | 45 | 23                     | 20 | 17 | 29           | 2  | 21 |
| 10           | 0                | 28 | 34 | 19                     | 9  | 30       | 25               | 1 | 47 | 44                     | 20 | 20 | 28           | 58 | 20 |
| 11           | 0                | 31 | 24 | 19                     | 10 | 30       | 23               | 1 | 50 | 4                      | 20 | 24 | 28           | 54 | 19 |
| 12           | 0                | 34 | 13 | 19                     | 11 | 30       | 21               | 1 | 52 | 23                     | 20 | 27 | 28           | 50 | 18 |
| 13           | 0                | 37 | 2  | 19                     | 13 | 30       | 20               | 1 | 54 | 39                     | 20 | 31 | 28           | 46 | 17 |
| 14           | 0                | 39 | 51 | 19                     | 14 | 30       | 18               | 1 | 56 | 54                     | 20 | 34 | 28           | 41 | 16 |
| 15           | 0                | 42 | 38 | 19                     | 16 | 30       | 16               | 1 | 59 | 8                      | 20 | 38 | 28           | 37 | 15 |
| 16           | 0                | 45 | 26 | 19                     | 17 | 30       | 14               | 2 | 1  | 19                     | 20 | 42 | 28           | 33 | 14 |
| 17           | 0                | 48 | 12 | 19                     | 19 | 30       | 12               | 2 | 3  | 29                     | 20 | 45 | 28           | 28 | 13 |
| 18           | 0                | 50 | 58 | 19                     | 20 | 30       | 10               | 2 | 5  | 37                     | 20 | 49 | 28           | 24 | 12 |
| 19           | 0                | 53 | 44 | 19                     | 22 | 30       | 7                | 2 | 7  | 43                     | 20 | 53 | 28           | 20 | 11 |
| 20           | 0                | 56 | 28 | 19                     | 24 | 30       | 5                | 2 | 9  | 47                     | 20 | 57 | 28           | 15 | 10 |
| 21           | 0                | 59 |    | 19                     | 26 | 30       | 2                | 2 | 11 | 50                     | 21 | 0  | 28           | 11 | 9  |
| 22           | 1                | 1  | 54 | 19                     | 28 | 30       | 0                | 2 | 13 | 50                     | 21 | 4  | 28           | 7  | 8  |
| 23           | 1                | 4  | 37 | 19                     | 31 | 29       | 57               | 2 | 15 | 48                     | 21 | 8  | 28           | 2  | 7  |
| 24           | 1                | 7  | 19 | 19                     | 33 | 29       | 54               | 2 | 17 | 44                     | 21 | 12 | 27           | 58 | 6  |
| 25           | 1                | 9  | 59 | 19                     | 36 | 29       | 51               | 2 | 19 | 38                     | 21 | 16 | 27           | 53 | 5  |
| 26           | 1                | 12 | 38 | 19                     | 38 | 29       | 48               | 2 | 21 | 30                     | 21 | 20 | 27           | 49 | 4  |
| 27           | 1                | 15 | 17 | 19                     | 41 | 29       | 45               | 2 | 23 | 20                     | 21 | 24 | 27           | 44 | 3  |
| 28           | 1                | 17 | 54 | 19                     | 43 | 29       | 42               | 2 | 25 | 8                      | 21 | 28 | 27           | 39 | 2  |
| 29           | 1                | 20 | 30 | 19                     | 46 | 29       | 38               | 2 | 26 | 53                     | 21 | 32 | 27           | 35 | 1  |
| 30           | 1                | 23 | 5  | 19                     | 49 | 29       | 35               | 2 | 28 | 36                     | 21 | 36 | 27           | 30 | 0  |
| Adde         |                  |    |    |                        |    | Adde     |                  |   |    |                        |    |    |              |    |    |
| II Signa     |                  |    |    |                        |    | IO Signa |                  |   |    |                        |    |    |              |    |    |



## Tabula Aequationum Mercurij Copernicæ.

| me-<br>My<br>us. | Anom. Eccen. | 2 Signa             |                              |                            | 3 Signa             |                              |                            | Anom. Eccen. |
|------------------|--------------|---------------------|------------------------------|----------------------------|---------------------|------------------------------|----------------------------|--------------|
|                  |              | Aequatio<br>Centri. | Aequatio<br>Argum.<br>maxima | Nume-<br>rus My<br>sticus. | Aequatio<br>Centri. | Aequatio<br>Argum.<br>maxima | Nume-<br>rus My<br>sticus. |              |
|                  |              | Subtrahe            |                              |                            | Subtrahe            |                              |                            |              |
|                  |              | P I II              | P I                          | P II                       | P I II              | P I                          | P I                        |              |
| 35               | 30           | 0 2 28 36           | 21 36                        | 27 30                      | 2 59 40             | 23 15                        | 25 43                      | 30           |
| 31               | 29           | 1 2 30 17           | 21 40                        | 27 26                      | 2 59 56             | 23 17                        | 25 40                      | 29           |
| 28               | 28           | 2 2 31 55           | 21 43                        | 27 22                      | 3 0 9               | 23 19                        | 25 37                      | 28           |
| 24               | 27           | 3 2 33 31           | 21 47                        | 27 18                      | 3 0 19              | 23 21                        | 25 34                      | 27           |
| 20               | 26           | 4 2 35 5            | 21 51                        | 27 14                      | 3 0 25              | 23 23                        | 25 31                      | 26           |
| 17               | 25           | 5 2 36 36           | 21 54                        | 27 10                      | 3 0 28              | 23 25                        | 25 29                      | 25           |
| 13               | 24           | 6 2 38 5            | 21 58                        | 27 6                       | 3 0 28              | 23 27                        | 25 27                      | 24           |
| 9                | 23           | 7 2 39 31           | 22 2                         | 27 2                       | 3 0 24              | 23 29                        | 25 25                      | 23           |
| 5                | 22           | 8 2 40 54           | 22 5                         | 26 58                      | 3 0 17              | 23 31                        | 25 23                      | 22           |
| 2                | 21           | 9 2 42 15           | 22 9                         | 26 54                      | 3 0 7               | 23 33                        | 25 22                      | 21           |
| 58               | 20           | 10 2 43 34          | 22 13                        | 26 50                      | 2 59 54             | 23 35                        | 25 20                      | 20           |
| 54               | 19           | 11 2 44 49          | 22 16                        | 26 46                      | 2 59 37             | 23 36                        | 25 19                      | 19           |
| 50               | 18           | 12 2 46 2           | 22 20                        | 26 42                      | 2 59 16             | 23 38                        | 25 18                      | 18           |
| 46               | 17           | 13 2 47 12          | 22 23                        | 26 38                      | 2 58 52             | 23 39                        | 25 16                      | 17           |
| 41               | 16           | 14 2 48 20          | 22 27                        | 26 35                      | 2 58 25             | 23 41                        | 25 15                      | 16           |
| 37               | 15           | 15 2 49 25          | 22 30                        | 26 31                      | 2 57 54             | 23 42                        | 25 14                      | 15           |
| 33               | 14           | 16 2 50 26          | 22 34                        | 26 27                      | 2 57 20             | 23 43                        | 25 13                      | 14           |
| 28               | 13           | 17 2 51 25          | 22 37                        | 26 24                      | 2 56 43             | 23 45                        | 25 12                      | 13           |
| 24               | 12           | 18 2 52 21          | 22 40                        | 26 20                      | 2 56 1              | 23 46                        | 25 11                      | 12           |
| 20               | 11           | 19 2 53 15          | 22 44                        | 26 17                      | 2 55 17             | 23 47                        | 25 10                      | 11           |
| 15               | 10           | 20 2 54 5           | 22 47                        | 26 14                      | 2 54 29             | 23 48                        | 25 9                       | 10           |
| 11               | 9            | 21 2 54 52          | 22 50                        | 26 10                      | 2 53 38             | 23 49                        | 25 9                       | 9            |
| 7                | 8            | 22 2 55 37          | 22 53                        | 26 7                       | 2 52 43             | 23 49                        | 25 8                       | 8            |
| 2                | 7            | 23 2 56 18          | 22 56                        | 26 4                       | 2 51 45             | 23 50                        | 25 8                       | 7            |
| 58               | 6            | 24 2 56 56          | 22 58                        | 26 1                       | 2 50 43             | 23 50                        | 25 7                       | 6            |
| 53               | 5            | 25 2 57 31          | 23 1                         | 25 58                      | 2 49 38             | 23 50                        | 25 7                       | 5            |
| 49               | 4            | 26 2 58 3           | 23 4                         | 25 55                      | 2 48 30             | 23 51                        | 25 6                       | 4            |
| 44               | 3            | 27 2 58 32          | 23 7                         | 25 52                      | 2 47 18             | 23 51                        | 25 6                       | 3            |
| 39               | 2            | 28 2 58 58          | 23 9                         | 25 49                      | 2 46 2              | 23 51                        | 25 6                       | 2            |
| 35               | 1            | 29 2 59 20          | 23 12                        | 25 46                      | 2 44 43             | 23 52                        | 25 5                       | 1            |
| 30               | 0            | 30 2 59 40          | 23 15                        | 25 43                      | 2 43 21             | 23 52                        | 25 5                       | 0            |
|                  |              | Adde                |                              |                            | Adde                |                              |                            |              |
|                  |              | 9 Signa             |                              |                            | 8 Signa             |                              |                            |              |
|                  |              |                     |                              |                            |                     |                              |                            |              |

## Tabula Aequationum Mercurij Copernicea.

| Anom. Eccen. | 4 Signa          |    |    |                        |    |         | 5 Signa          |   |    |                        |    |      | Anom. Eccen. |    |    |
|--------------|------------------|----|----|------------------------|----|---------|------------------|---|----|------------------------|----|------|--------------|----|----|
|              | Aequatio Centri. |    |    | Aequatio Argum. maxima |    |         | Aequatio Centri. |   |    | Aequatio Argum. maxima |    |      |              |    |    |
|              | Subtrahe         |    |    |                        |    |         | Subtrahe         |   |    |                        |    |      |              |    |    |
|              | P                | I  | II | P                      | I  | II      | P                | I | II | P                      | I  | II   |              |    |    |
| 0            | 2                | 43 | 21 | 23                     | 52 | 25      | 5                | 1 | 37 | 55                     | 23 | 33   | 25           | 24 | 30 |
| 1            | 2                | 41 | 56 | 23                     | 52 | 25      | 5                | 1 | 35 | 2                      | 23 | 32   | 25           | 25 | 29 |
| 2            | 2                | 40 | 27 | 23                     | 51 | 25      | 5                | 1 | 32 | 6                      | 23 | 31   | 25           | 26 | 28 |
| 3            | 2                | 38 | 54 | 23                     | 51 | 25      | 6                | 1 | 29 | 9                      | 23 | 30   | 25           | 27 | 27 |
| 4            | 2                | 37 | 19 | 23                     | 51 | 25      | 6                | 1 | 26 | 9                      | 23 | 29   | 25           | 28 | 26 |
| 5            | 2                | 35 | 40 | 23                     | 51 | 25      | 6                | 1 | 23 | 7                      | 23 | 28   | 25           | 29 | 25 |
| 6            | 2                | 33 | 57 | 23                     | 50 | 25      | 7                | 1 | 20 | 3                      | 23 | 27   | 25           | 30 | 24 |
| 7            | 2                | 32 | 12 | 23                     | 50 | 25      | 7                | 1 | 16 | 58                     | 23 | 26   | 25           | 32 | 23 |
| 8            | 2                | 30 | 23 | 23                     | 50 | 25      | 7                | 1 | 13 | 50                     | 23 | 25   | 25           | 33 | 22 |
| 9            | 2                | 28 | 31 | 23                     | 49 | 25      | 8                | 1 | 10 | 41                     | 23 | 24   | 25           | 34 | 21 |
| 10           | 2                | 26 | 36 | 23                     | 49 | 25      | 8                | 1 | 7  | 30                     | 23 | 23   | 25           | 35 | 20 |
| 11           | 2                | 24 | 37 | 23                     | 48 | 25      | 9                | 1 | 4  | 18                     | 23 | 22   | 25           | 36 | 19 |
| 12           | 2                | 22 | 36 | 23                     | 48 | 25      | 9                | 1 | 1  | 4                      | 23 | 21   | 25           | 37 | 18 |
| 13           | 2                | 20 | 31 | 23                     | 47 | 25      | 10               | 0 | 57 | 48                     | 23 | 21   | 25           | 38 | 17 |
| 14           | 2                | 18 | 23 | 23                     | 47 | 25      | 10               | 0 | 54 | 32                     | 23 | 20   | 25           | 38 | 16 |
| 15           | 2                | 16 | 13 | 23                     | 46 | 25      | 11               | 0 | 51 | 13                     | 23 | 19   | 25           | 39 | 15 |
| 16           | 2                | 13 | 59 | 23                     | 46 | 25      | 12               | 0 | 47 | 54                     | 23 | 18   | 25           | 40 | 14 |
| 17           | 2                | 11 | 42 | 23                     | 45 | 25      | 12               | 0 | 44 | 34                     | 23 | 18   | 25           | 40 | 13 |
| 18           | 2                | 9  | 23 | 23                     | 44 | 25      | 13               | 0 | 41 | 12                     | 23 | 17   | 25           | 41 | 12 |
| 19           | 2                | 7  | 0  | 23                     | 43 | 25      | 14               | 0 | 37 | 50                     | 23 | 17   | 25           | 41 | 11 |
| 20           | 2                | 4  | 35 | 23                     | 42 | 25      | 14               | 0 | 34 | 26                     | 23 | 16   | 25           | 42 | 10 |
| 21           | 2                | 2  | 6  | 23                     | 42 | 25      | 15               | 0 | 31 | 2                      | 23 | 16   | 25           | 42 | 9  |
| 22           | 1                | 59 | 35 | 23                     | 41 | 25      | 16               | 0 | 27 | 37                     | 23 | 16   | 25           | 42 | 8  |
| 23           | 1                | 57 | 2  | 23                     | 40 | 25      | 17               | 0 | 24 | 11                     | 23 | 15   | 25           | 43 | 7  |
| 24           | 1                | 54 | 26 | 23                     | 39 | 25      | 18               | 0 | 20 | 45                     | 23 | 15   | 25           | 43 | 6  |
| 25           | 1                | 51 | 47 | 23                     | 38 | 25      | 19               | 0 | 17 | 18                     | 23 | 15   | 25           | 43 | 5  |
| 26           | 1                | 49 | 5  | 23                     | 37 | 25      | 20               | 0 | 13 | 51                     | 23 | 15   | 25           | 43 | 4  |
| 27           | 1                | 46 | 21 | 23                     | 36 | 25      | 21               | 0 | 10 | 24                     | 23 | 15   | 25           | 44 | 3  |
| 28           | 1                | 43 | 35 | 23                     | 35 | 25      | 22               | 0 | 6  | 56                     | 23 | 14   | 25           | 44 | 2  |
| 29           | 1                | 40 | 46 | 23                     | 34 | 25      | 23               | 0 | 3  | 28                     | 23 | 14   | 25           | 44 | 1  |
| 30           | 1                | 37 | 55 | 23                     | 33 | 25      | 24               | 0 | 0  | 0                      | 23 | 14   | 25           | 44 | 0  |
| Adde         |                  |    |    |                        |    | Adde    |                  |   |    |                        |    | trid |              |    |    |
| 7 Signa      |                  |    |    |                        |    | 6 Signa |                  |   |    |                        |    | trid |              |    |    |



|      |              |
|------|--------------|
| me-  | Anom. Eccen- |
| My   |              |
| cus. |              |
| 1    |              |
| 24   | 30           |
| 25   | 29           |
| 26   | 28           |
| 27   | 27           |
| 28   | 26           |
| 29   | 25           |
| 30   | 24           |
| 32   | 23           |
| 33   | 22           |
| 34   | 21           |
| 35   | 20           |
| 36   | 19           |
| 37   | 18           |
| 38   | 17           |
| 38   | 16           |
| 39   | 15           |
| 40   | 14           |
| 40   | 13           |
| 41   | 12           |
| 41   | 11           |
| 42   | 10           |
| 42   | 9            |
| 42   | 8            |
| 43   | 7            |
| 43   | 6            |
| 43   | 5            |
| 43   | 4            |
| 44   | 3            |
| 44   | 2            |
| 44   | 1            |
| 44   | 0            |
|      | trici        |

TABVLA  
GENERALIS  
PRIMA

AEQVATIONVM ORBIS,  
scu Argumenti singulis Planetis, &  
hypothesibus inferuiens.

*Nunc primum excogitata, & supputata.*

A IOAN. ANT. MAGINO PATAVINO  
MATHEMATICARVM IN ALMO  
Bononiensi Gymnasio Professore.

Supplementum Ephemeridum,  
*Tabula Aequationum Orbis, seu Argumenti*

| Arg. verum  |   | Numerus mysticus.      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Arg. verum |    |  |
|-------------|---|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|----|--|
|             |   | 49                     | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |    |    |    |    |    |    |    |            |    |  |
|             |   | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |            |    |  |
|             |   | P                      | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  | P  | i  |            |    |  |
| 0           |   | 0                      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 30         |    |  |
| 1           |   | 0                      | 7  | 0  | 7  | 0  | 7  | 0  | 6  | 0  | 6  | 0  | 6  | 0  | 5  | 0  | 5  | 29         |    |  |
| 2           |   | 0                      | 15 | 0  | 14 | 0  | 13 | 0  | 13 | 0  | 12 | 0  | 11 | 0  | 11 | 0  | 10 | 28         |    |  |
| 3           |   | 0                      | 22 | 0  | 21 | 0  | 20 | 0  | 19 | 0  | 18 | 0  | 17 | 0  | 16 | 0  | 15 | 27         |    |  |
| 4           |   | 0                      | 29 | 0  | 28 | 0  | 27 | 0  | 25 | 0  | 24 | 0  | 23 | 0  | 22 | 0  | 21 | 26         |    |  |
| 5           |   | 0                      | 37 | 0  | 35 | 0  | 33 | 0  | 32 | 0  | 30 | 0  | 28 | 0  | 27 | 0  | 26 | 25         |    |  |
| 6           |   | 0                      | 44 | 0  | 42 | 0  | 40 | 0  | 38 | 0  | 36 | 0  | 34 | 0  | 32 | 0  | 31 | 24         |    |  |
| 7           |   | 0                      | 51 | 0  | 49 | 0  | 47 | 0  | 44 | 0  | 42 | 0  | 40 | 0  | 38 | 0  | 36 | 23         |    |  |
| 8           |   | 0                      | 59 | 0  | 56 | 0  | 53 | 0  | 51 | 0  | 48 | 0  | 46 | 0  | 43 | 0  | 41 | 22         |    |  |
| 9           | I | 6                      | I  | 3  | I  | 0  | 0  | 57 | 0  | 54 | 0  | 51 | 0  | 48 | 0  | 46 | 0  | 43         | 21 |  |
| 10          | I | 13                     | I  | 10 | I  | 7  | I  | 3  | I  | 0  | 0  | 57 | 0  | 54 | 0  | 51 | 0  | 48         | 20 |  |
| 11          | I | 21                     | I  | 17 | I  | 13 | I  | 10 | I  | 6  | I  | 3  | 0  | 59 | 0  | 56 | 0  | 53         | 19 |  |
| 12          | I | 28                     | I  | 24 | I  | 20 | I  | 16 | I  | 12 | I  | 8  | I  | 5  | I  | 1  | 0  | 58         | 18 |  |
| 13          | I | 35                     | I  | 31 | I  | 26 | I  | 22 | I  | 18 | I  | 14 | I  | 10 | I  | 6  | I  | 2          | 17 |  |
| 14          | I | 42                     | I  | 38 | I  | 33 | I  | 28 | I  | 24 | I  | 20 | I  | 15 | I  | 11 | I  | 7          | 16 |  |
| 15          | I | 50                     | I  | 44 | I  | 39 | I  | 35 | I  | 30 | I  | 25 | I  | 21 | I  | 16 | I  | 12         | 15 |  |
| 16          | I | 57                     | I  | 51 | I  | 46 | I  | 41 | I  | 36 | I  | 31 | I  | 26 | I  | 21 | I  | 17         | 14 |  |
| 17          | 2 | 4                      | I  | 58 | I  | 52 | I  | 47 | I  | 41 | I  | 37 | I  | 31 | I  | 26 | I  | 21         | 13 |  |
| 18          | 2 | 11                     | 2  | 5  | I  | 59 | I  | 53 | I  | 47 | I  | 42 | I  | 36 | I  | 31 | I  | 26         | 12 |  |
| 19          | 2 | 18                     | 2  | 11 | 2  | 5  | I  | 59 | I  | 53 | I  | 48 | I  | 42 | I  | 36 | I  | 31         | 11 |  |
| 20          | 2 | 25                     | 2  | 18 | 2  | 12 | 2  | 5  | I  | 59 | I  | 53 | I  | 47 | I  | 41 | I  | 36         | 10 |  |
| 21          | 2 | 32                     | 2  | 25 | 2  | 18 | 2  | 11 | 2  | 4  | I  | 58 | I  | 52 | I  | 46 | I  | 40         | 9  |  |
| 22          | 2 | 39                     | 2  | 32 | 2  | 25 | 2  | 17 | 2  | 10 | 2  | 4  | I  | 57 | I  | 51 | I  | 45         | 8  |  |
| 23          | 2 | 46                     | 2  | 38 | 2  | 31 | 2  | 23 | 2  | 16 | 2  | 9  | 2  | 1  | 55 | I  | 49 |            | 7  |  |
| 24          | 2 | 53                     | 2  | 45 | 2  | 37 | 2  | 29 | 2  | 22 | 2  | 15 | 2  | 7  | 2  | 0  | I  | 54         | 6  |  |
| 25          | 3 | 0                      | 2  | 52 | 2  | 44 | 2  | 35 | 2  | 27 | 2  | 20 | 2  | 12 | 2  | 5  | I  | 58         | 5  |  |
| 26          | 3 | 7                      | 2  | 58 | 2  | 50 | 2  | 41 | 2  | 33 | 2  | 25 | 2  | 17 | 2  | 10 | 2  | 2          | 4  |  |
| 27          | 3 | 13                     | 3  | 5  | 2  | 56 | 2  | 47 | 2  | 38 | 2  | 31 | 2  | 22 | 2  | 14 | 2  | 7          | 3  |  |
| 28          | 3 | 20                     | 3  | 11 | 3  | 2  | 2  | 53 | 2  | 44 | 2  | 36 | 2  | 27 | 2  | 19 | 2  | 11         | 2  |  |
| 29          | 3 | 27                     | 3  | 18 | 3  | 8  | 2  | 59 | 2  | 49 | 2  | 41 | 2  | 32 | 2  | 24 | 2  | 15         | 1  |  |
| 30          | 3 | 34                     | 3  | 24 | 3  | 14 | 3  | 5  | 2  | 55 | 2  | 46 | 2  | 37 | 2  | 29 | 2  | 20         | 11 |  |
| Subtrahenda |   |                        |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |            |    |  |



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|-------------|---|------------------------|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|----|----|------------|--|
|             |   | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |    |    |            |  |
|             |   | 49                     | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |   |    |   |    |   |    |   |    |    |            |  |
|             | P | /                      | P  | /  | P  | /  | P  | /  | P  | /  | P | /  | P | /  | P | /  | P | /  |    |            |  |
| 2           | 6 | 27                     | 6  | 8  | 5  | 49 | 5  | 32 | 5  | 15 | 4 | 58 | 4 | 41 | 4 | 25 | 4 | 10 | 30 |            |  |
| 1           | 6 | 32                     | 6  | 12 | 5  | 54 | 5  | 36 | 5  | 19 | 5 | 2  | 4 | 44 | 4 | 28 | 4 | 13 | 29 |            |  |
| 2           | 6 | 36                     | 6  | 17 | 5  | 58 | 5  | 40 | 5  | 22 | 5 | 5  | 4 | 48 | 4 | 31 | 4 | 15 | 28 |            |  |
| 3           | 6 | 41                     | 6  | 21 | 6  | 2  | 5  | 44 | 5  | 25 | 5 | 8  | 4 | 51 | 4 | 34 | 4 | 18 | 27 |            |  |
| 4           | 6 | 45                     | 6  | 25 | 6  | 6  | 5  | 47 | 5  | 29 | 5 | 11 | 4 | 54 | 4 | 37 | 4 | 21 | 26 |            |  |
| 5           | 6 | 49                     | 6  | 29 | 6  | 10 | 5  | 51 | 5  | 32 | 5 | 14 | 4 | 57 | 4 | 40 | 4 | 23 | 25 |            |  |
| 6           | 6 | 53                     | 6  | 33 | 6  | 13 | 5  | 54 | 5  | 35 | 5 | 17 | 4 | 59 | 4 | 43 | 4 | 26 | 24 |            |  |
| 7           | 6 | 57                     | 6  | 37 | 6  | 17 | 5  | 58 | 5  | 39 | 5 | 20 | 5 | 2  | 4 | 45 | 4 | 28 | 23 |            |  |
| 8           | 7 | 1                      | 6  | 40 | 6  | 20 | 6  | 1  | 5  | 42 | 5 | 23 | 5 | 5  | 4 | 47 | 4 | 30 | 22 |            |  |
| 9           | 7 | 5                      | 6  | 44 | 6  | 24 | 6  | 4  | 5  | 45 | 5 | 25 | 5 | 7  | 4 | 50 | 4 | 33 | 21 |            |  |
| 10          | 7 | 9                      | 6  | 47 | 6  | 27 | 6  | 7  | 5  | 47 | 5 | 28 | 5 | 10 | 4 | 52 | 4 | 35 | 20 |            |  |
| 11          | 7 | 13                     | 6  | 51 | 6  | 30 | 6  | 10 | 5  | 50 | 5 | 30 | 5 | 12 | 4 | 54 | 4 | 37 | 19 |            |  |
| 12          | 7 | 16                     | 6  | 54 | 6  | 33 | 6  | 13 | 5  | 53 | 5 | 33 | 5 | 14 | 4 | 56 | 4 | 39 | 18 |            |  |
| 13          | 7 | 19                     | 6  | 57 | 6  | 36 | 6  | 16 | 5  | 55 | 5 | 35 | 5 | 17 | 4 | 58 | 4 | 41 | 17 |            |  |
| 14          | 7 | 22                     | 7  | 0  | 6  | 39 | 6  | 18 | 5  | 58 | 5 | 38 | 5 | 19 | 5 | 0  | 4 | 42 | 16 |            |  |
| 15          | 7 | 26                     | 7  | 3  | 6  | 41 | 6  | 21 | 6  | 0  | 5 | 40 | 5 | 21 | 5 | 2  | 4 | 44 | 15 |            |  |
| 16          | 7 | 29                     | 7  | 6  | 6  | 44 | 6  | 23 | 6  | 2  | 5 | 42 | 5 | 23 | 5 | 4  | 4 | 46 | 14 |            |  |
| 17          | 7 | 32                     | 7  | 9  | 6  | 46 | 6  | 26 | 6  | 5  | 5 | 44 | 5 | 25 | 5 | 6  | 4 | 47 | 13 |            |  |
| 18          | 7 | 34                     | 7  | 11 | 6  | 49 | 6  | 28 | 6  | 7  | 5 | 46 | 5 | 27 | 5 | 8  | 4 | 49 | 12 |            |  |
| 19          | 7 | 37                     | 7  | 14 | 6  | 51 | 6  | 30 | 6  | 9  | 5 | 48 | 5 | 29 | 5 | 9  | 4 | 50 | 11 |            |  |
| 20          | 7 | 39                     | 7  | 16 | 6  | 54 | 6  | 32 | 6  | 11 | 5 | 50 | 5 | 30 | 5 | 11 | 4 | 52 | 10 |            |  |
| 21          | 7 | 42                     | 7  | 18 | 6  | 56 | 6  | 34 | 6  | 13 | 5 | 51 | 5 | 32 | 5 | 12 | 4 | 53 | 9  |            |  |
| 22          | 7 | 44                     | 7  | 20 | 6  | 58 | 6  | 36 | 6  | 14 | 5 | 53 | 5 | 33 | 5 | 13 | 4 | 54 | 8  |            |  |
| 23          | 7 | 46                     | 7  | 22 | 7  | 0  | 6  | 37 | 6  | 16 | 5 | 55 | 5 | 34 | 5 | 14 | 4 | 55 | 7  |            |  |
| 24          | 7 | 48                     | 7  | 24 | 7  | 2  | 6  | 39 | 6  | 17 | 5 | 56 | 5 | 35 | 5 | 15 | 4 | 56 | 6  |            |  |
| 25          | 7 | 50                     | 7  | 26 | 7  | 4  | 6  | 40 | 6  | 19 | 5 | 57 | 5 | 36 | 5 | 16 | 4 | 57 | 5  |            |  |
| 26          | 7 | 52                     | 7  | 28 | 7  | 5  | 6  | 42 | 6  | 20 | 5 | 58 | 5 | 37 | 5 | 17 | 4 | 58 | 4  |            |  |
| 27          | 7 | 53                     | 7  | 30 | 7  | 6  | 6  | 43 | 6  | 21 | 5 | 59 | 5 | 38 | 5 | 18 | 4 | 59 | 3  |            |  |
| 28          | 7 | 55                     | 7  | 31 | 7  | 7  | 6  | 44 | 6  | 22 | 6 | 0  | 5 | 39 | 5 | 19 | 5 | 0  | 2  |            |  |
| 29          | 7 | 56                     | 7  | 32 | 7  | 8  | 6  | 45 | 6  | 23 | 6 | 1  | 5 | 40 | 5 | 20 | 5 | 1  | 1  |            |  |
| 30          | 7 | 58                     | 7  | 33 | 7  | 9  | 6  | 46 | 6  | 24 | 6 | 2  | 5 | 41 | 5 | 20 | 5 | 1  | 0  |            |  |
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| 64         | 39 | 18 |
| 84         | 41 | 17 |
| 04         | 42 | 16 |
| 24         | 44 | 15 |
| 44         | 46 | 14 |
| 64         | 47 | 13 |
| 84         | 49 | 12 |
| 94         | 50 | 11 |
| 14         | 52 | 10 |
| 24         | 53 | 9  |
| 34         | 54 | 8  |
| 44         | 55 | 7  |
| 54         | 56 | 6  |
| 64         | 57 | 5  |
| 74         | 58 | 4  |
| 84         | 59 | 3  |
| 94         | 0  | 2  |
| 05         | 1  | 1  |
| 05         | 1  | 9  |

| Arg. verum |   | Numerus Mysticus.      |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   | Arg. verum |    |
|------------|---|------------------------|----|----|----|----|----|----|----|----|---|----|---|----|---|----|---|------------|----|
|            |   | 49                     | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |   |    |   |    |   |    |   |            |    |
|            |   | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |            |    |
|            |   | P                      | I  | P  | I  | P  | I  | P  | I  | P  | I | P  | I | P  | I | P  | I |            |    |
| 3          | 7 | 58                     | 7  | 33 | 7  | 9  | 6  | 46 | 6  | 24 | 6 | 2  | 5 | 41 | 5 | 20 | 5 | 1          | 30 |
| 1          | 7 | 59                     | 7  | 34 | 7  | 10 | 6  | 47 | 6  | 25 | 6 | 3  | 5 | 42 | 5 | 21 | 5 | 1          | 29 |
| 2          | 8 | 0                      | 7  | 35 | 7  | 11 | 6  | 47 | 6  | 25 | 6 | 3  | 5 | 42 | 5 | 22 | 5 | 2          | 28 |
| 3          | 8 | 1                      | 7  | 36 | 7  | 12 | 6  | 48 | 6  | 25 | 6 | 4  | 5 | 43 | 5 | 22 | 5 | 2          | 27 |
| 4          | 8 | 1                      | 7  | 36 | 7  | 12 | 6  | 48 | 6  | 25 | 6 | 4  | 5 | 43 | 5 | 22 | 5 | 2          | 26 |
| 5          | 8 | 2                      | 7  | 37 | 7  | 13 | 6  | 49 | 6  | 26 | 6 | 4  | 5 | 43 | 5 | 22 | 5 | 2          | 25 |
| 6          | 8 | 2                      | 7  | 37 | 7  | 13 | 6  | 49 | 6  | 26 | 6 | 4  | 5 | 43 | 5 | 22 | 5 | 2          | 24 |
| 7          | 8 | 2                      | 7  | 37 | 7  | 13 | 6  | 48 | 6  | 26 | 6 | 4  | 5 | 43 | 5 | 22 | 5 | 2          | 23 |
| 8          | 8 | 2                      | 7  | 37 | 7  | 12 | 6  | 48 | 6  | 25 | 6 | 3  | 5 | 42 | 5 | 21 | 5 | 2          | 22 |
| 9          | 8 | 2                      | 7  | 37 | 7  | 12 | 6  | 48 | 6  | 25 | 6 | 3  | 5 | 42 | 5 | 21 | 5 | 2          | 21 |
| 10         | 8 | 2                      | 7  | 36 | 7  | 12 | 6  | 48 | 6  | 25 | 6 | 3  | 5 | 42 | 5 | 21 | 5 | 1          | 20 |
| 11         | 8 | 1                      | 7  | 36 | 7  | 12 | 6  | 47 | 6  | 24 | 6 | 2  | 5 | 41 | 5 | 20 | 5 | 1          | 19 |
| 12         | 8 | 1                      | 7  | 35 | 7  | 11 | 6  | 47 | 6  | 24 | 6 | 2  | 5 | 41 | 5 | 20 | 5 | 0          | 18 |
| 13         | 8 | 0                      | 7  | 35 | 7  | 10 | 6  | 46 | 6  | 23 | 6 | 1  | 5 | 40 | 5 | 19 | 5 | 0          | 17 |
| 14         | 8 | 0                      | 7  | 34 | 7  | 9  | 6  | 45 | 6  | 22 | 6 | 0  | 5 | 39 | 5 | 18 | 4 | 59         | 16 |
| 15         | 7 | 59                     | 7  | 33 | 7  | 8  | 6  | 44 | 6  | 21 | 5 | 59 | 5 | 38 | 5 | 17 | 4 | 58         | 15 |
| 16         | 7 | 58                     | 7  | 32 | 7  | 7  | 6  | 43 | 6  | 20 | 5 | 58 | 5 | 37 | 5 | 16 | 4 | 57         | 14 |
| 17         | 7 | 57                     | 7  | 31 | 7  | 6  | 6  | 42 | 6  | 19 | 5 | 57 | 5 | 36 | 5 | 15 | 4 | 56         | 13 |
| 18         | 7 | 55                     | 7  | 29 | 7  | 5  | 6  | 41 | 6  | 18 | 5 | 56 | 5 | 35 | 5 | 14 | 4 | 54         | 12 |
| 19         | 7 | 54                     | 7  | 28 | 7  | 4  | 6  | 40 | 6  | 17 | 5 | 55 | 5 | 34 | 5 | 13 | 4 | 53         | 11 |
| 20         | 7 | 52                     | 7  | 26 | 7  | 2  | 6  | 38 | 6  | 15 | 5 | 53 | 5 | 32 | 5 | 11 | 4 | 52         | 10 |
| 21         | 7 | 50                     | 7  | 24 | 7  | 0  | 6  | 36 | 6  | 13 | 5 | 51 | 5 | 30 | 5 | 9  | 4 | 50         | 9  |
| 22         | 7 | 48                     | 7  | 22 | 6  | 58 | 6  | 34 | 6  | 11 | 5 | 49 | 5 | 28 | 5 | 8  | 4 | 49         | 8  |
| 23         | 7 | 46                     | 7  | 20 | 6  | 56 | 6  | 32 | 6  | 9  | 5 | 47 | 5 | 26 | 5 | 6  | 4 | 47         | 7  |
| 24         | 7 | 43                     | 7  | 17 | 6  | 53 | 6  | 30 | 6  | 7  | 5 | 45 | 5 | 24 | 5 | 4  | 4 | 45         | 6  |
| 25         | 7 | 40                     | 7  | 15 | 6  | 51 | 6  | 28 | 6  | 5  | 5 | 43 | 5 | 22 | 5 | 2  | 4 | 43         | 5  |
| 26         | 7 | 37                     | 7  | 12 | 6  | 48 | 6  | 25 | 6  | 3  | 5 | 41 | 5 | 20 | 5 | 0  | 4 | 41         | 4  |
| 27         | 7 | 34                     | 7  | 9  | 6  | 45 | 6  | 23 | 6  | 1  | 5 | 39 | 5 | 18 | 4 | 58 | 4 | 39         | 3  |
| 28         | 7 | 31                     | 7  | 6  | 6  | 42 | 6  | 20 | 5  | 58 | 5 | 36 | 5 | 15 | 4 | 56 | 4 | 37         | 2  |
| 29         | 7 | 28                     | 7  | 3  | 6  | 40 | 6  | 17 | 5  | 55 | 5 | 34 | 5 | 13 | 4 | 54 | 4 | 35         | 1  |
| 30         | 7 | 25                     | 7  | 0  | 6  | 37 | 6  | 14 | 5  | 52 | 5 | 31 | 5 | 11 | 4 | 51 | 4 | 33         | 0  |
|            |   | Subtrahenda            |    |    |    |    |    |    |    |    |   |    |   |    |   |    |   |            |    |

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| Arg. verum   |   | Numerus Mysticus.      |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    | Arg. verum |    |    |  |
|--------------|---|------------------------|----|----|----|----|----|----|----|----|----|---|----|---|----|---|----|------------|----|----|--|
|              |   | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |    |   |    |   |    |   |    |            |    |    |  |
|              |   | 49                     | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 |    |   |    |   |    |   |    |            |    |    |  |
|              |   | P                      | I  | P  | I  | P  | I  | P  | I  | P  | I  | P | I  | P | I  | P | I  |            |    |    |  |
| 4            | 1 | 7                      | 25 | 7  | 0  | 6  | 37 | 6  | 14 | 5  | 52 | 5 | 31 | 5 | 11 | 4 | 51 | 4          | 33 | 30 |  |
|              |   | 7                      | 22 | 6  | 57 | 6  | 34 | 6  | 11 | 5  | 49 | 5 | 28 | 5 | 8  | 4 | 49 | 4          | 31 | 29 |  |
| 2            |   | 7                      | 18 | 6  | 53 | 6  | 30 | 6  | 7  | 5  | 46 | 5 | 25 | 5 | 5  | 4 | 46 | 4          | 28 | 28 |  |
| 3            |   | 7                      | 14 | 6  | 50 | 6  | 27 | 6  | 4  | 5  | 43 | 5 | 22 | 5 | 2  | 4 | 43 | 4          | 26 | 27 |  |
| 4            |   | 7                      | 10 | 6  | 46 | 6  | 23 | 6  | 0  | 5  | 39 | 5 | 19 | 4 | 59 | 4 | 40 | 4          | 23 | 26 |  |
| 5            |   | 7                      | 5  | 6  | 42 | 6  | 19 | 5  | 57 | 5  | 36 | 5 | 16 | 4 | 56 | 4 | 37 | 4          | 20 | 25 |  |
| 6            |   | 7                      | 1  | 6  | 38 | 6  | 15 | 5  | 53 | 5  | 32 | 5 | 12 | 4 | 53 | 4 | 34 | 4          | 17 | 24 |  |
| 7            |   | 6                      | 56 | 6  | 34 | 6  | 11 | 5  | 49 | 5  | 29 | 5 | 9  | 4 | 50 | 4 | 31 | 4          | 14 | 23 |  |
| 8            |   | 6                      | 52 | 6  | 29 | 6  | 7  | 5  | 45 | 5  | 25 | 5 | 5  | 4 | 46 | 4 | 28 | 4          | 11 | 22 |  |
| 9            |   | 6                      | 47 | 6  | 25 | 6  | 3  | 5  | 41 | 5  | 21 | 5 | 2  | 4 | 43 | 4 | 25 | 4          | 8  | 21 |  |
| 10           |   | 6                      | 42 | 6  | 20 | 5  | 58 | 5  | 37 | 5  | 17 | 4 | 58 | 4 | 39 | 4 | 21 | 4          | 4  | 20 |  |
| 11           |   | 6                      | 37 | 6  | 15 | 5  | 54 | 5  | 33 | 5  | 13 | 4 | 54 | 4 | 36 | 4 | 18 | 4          | 1  | 19 |  |
| 12           |   | 6                      | 32 | 6  | 10 | 5  | 49 | 5  | 28 | 5  | 8  | 4 | 50 | 4 | 32 | 4 | 14 | 3          | 58 | 18 |  |
| 13           |   | 6                      | 27 | 6  | 5  | 5  | 44 | 5  | 24 | 5  | 4  | 4 | 45 | 4 | 28 | 4 | 11 | 3          | 55 | 17 |  |
| 14           |   | 6                      | 21 | 6  | 0  | 5  | 39 | 5  | 19 | 4  | 59 | 4 | 41 | 4 | 24 | 4 | 7  | 3          | 51 | 16 |  |
| 15           |   | 6                      | 16 | 5  | 54 | 5  | 34 | 5  | 14 | 4  | 54 | 4 | 36 | 4 | 19 | 4 | 3  | 3          | 48 | 15 |  |
| 16           |   | 6                      | 10 | 5  | 49 | 5  | 28 | 5  | 9  | 4  | 50 | 4 | 32 | 4 | 15 | 3 | 59 | 3          | 44 | 14 |  |
| 17           |   | 6                      | 4  | 5  | 43 | 5  | 23 | 5  | 3  | 4  | 45 | 4 | 27 | 4 | 10 | 3 | 55 | 3          | 40 | 13 |  |
| 18           |   | 5                      | 58 | 5  | 37 | 5  | 17 | 4  | 58 | 4  | 40 | 4 | 23 | 4 | 6  | 3 | 51 | 3          | 36 | 12 |  |
| 19           |   | 5                      | 52 | 5  | 31 | 5  | 11 | 4  | 52 | 4  | 35 | 4 | 18 | 4 | 1  | 3 | 46 | 3          | 32 | 11 |  |
| 20           |   | 5                      | 45 | 5  | 25 | 5  | 5  | 4  | 47 | 4  | 30 | 4 | 13 | 3 | 57 | 3 | 42 | 3          | 28 | 10 |  |
| 21           |   | 5                      | 38 | 5  | 19 | 4  | 59 | 4  | 41 | 4  | 25 | 4 | 8  | 3 | 42 | 3 | 37 | 3          | 24 | 9  |  |
| 22           |   | 5                      | 31 | 5  | 12 | 4  | 53 | 4  | 36 | 4  | 19 | 4 | 3  | 3 | 48 | 3 | 33 | 3          | 19 | 8  |  |
| 23           |   | 5                      | 24 | 5  | 6  | 4  | 47 | 4  | 30 | 4  | 14 | 3 | 58 | 3 | 43 | 3 | 28 | 3          | 15 | 7  |  |
| 24           |   | 5                      | 17 | 4  | 59 | 4  | 41 | 4  | 24 | 4  | 8  | 3 | 53 | 3 | 38 | 3 | 24 | 3          | 11 | 6  |  |
| 25           |   | 5                      | 10 | 4  | 52 | 4  | 34 | 4  | 18 | 4  | 2  | 3 | 48 | 3 | 33 | 3 | 19 | 3          | 6  | 5  |  |
| 26           |   | 5                      | 3  | 4  | 45 | 4  | 28 | 4  | 12 | 3  | 57 | 3 | 42 | 3 | 28 | 3 | 15 | 3          | 2  | 4  |  |
| 27           |   | 4                      | 56 | 4  | 38 | 4  | 22 | 4  | 6  | 3  | 51 | 3 | 37 | 3 | 23 | 3 | 10 | 2          | 57 | 3  |  |
| 28           |   | 4                      | 48 | 4  | 31 | 4  | 15 | 4  | 0  | 3  | 45 | 3 | 31 | 3 | 18 | 3 | 5  | 2          | 53 | 2  |  |
| 29           |   | 4                      | 41 | 4  | 24 | 4  | 8  | 3  | 54 | 3  | 39 | 3 | 25 | 3 | 12 | 3 | 0  | 2          | 48 | 1  |  |
| 30           |   | 4                      | 33 | 4  | 17 | 4  | 1  | 3  | 47 | 3  | 33 | 3 | 19 | 3 | 7  | 2 | 55 | 2          | 43 | 7  |  |
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| 4          | 4 | 17 | 24 |
| 1          | 4 | 14 | 23 |
| 18         | 4 | 11 | 22 |
| 15         | 4 | 8  | 21 |
| 12         | 4 | 4  | 20 |
| 9          | 4 | 1  | 19 |
| 6          | 3 | 58 | 18 |
| 3          | 3 | 55 | 17 |
| 1          | 3 | 51 | 16 |
| 1          | 3 | 48 | 15 |
| 1          | 3 | 44 | 14 |
| 1          | 3 | 40 | 13 |
| 1          | 3 | 36 | 12 |
| 1          | 3 | 32 | 11 |
| 1          | 3 | 28 | 10 |
| 1          | 3 | 24 | 9  |
| 1          | 3 | 19 | 8  |
| 1          | 3 | 15 | 7  |
| 1          | 3 | 11 | 6  |
| 1          | 3 | 6  | 5  |
| 1          | 3 | 2  | 4  |
| 1          | 3 | 57 | 3  |
| 1          | 3 | 53 | 2  |
| 1          | 3 | 48 | 1  |
| 1          | 3 | 43 | 7  |

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| 5          | 4 | 33                | 4  | 17 | 4  | 1  | 3  | 47 | 3  | 33 | 3                      | 19 | 3 | 7  | 2 | 55 | 2 | 43 | 30 |            |   |  |
| 1          | 4 | 25                | 4  | 10 | 3  | 54 | 3  | 41 | 3  | 27 | 3                      | 14 | 3 | 1  | 2 | 50 | 2 | 38 | 29 |            |   |  |
| 2          | 4 | 17                | 4  | 2  | 3  | 47 | 3  | 34 | 3  | 20 | 3                      | 8  | 2 | 56 | 2 | 45 | 2 | 33 | 28 |            |   |  |
| 3          | 4 | 9                 | 3  | 54 | 3  | 40 | 3  | 27 | 3  | 14 | 3                      | 2  | 2 | 50 | 2 | 39 | 2 | 28 | 27 |            |   |  |
| 4          | 4 | 0                 | 3  | 46 | 3  | 33 | 3  | 20 | 3  | 7  | 2                      | 56 | 2 | 44 | 2 | 34 | 2 | 23 | 26 |            |   |  |
| 5          | 3 | 52                | 3  | 38 | 3  | 26 | 3  | 13 | 3  | 1  | 2                      | 50 | 2 | 39 | 2 | 28 | 2 | 18 | 25 |            |   |  |
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| 7          | 3 | 35                | 3  | 22 | 3  | 11 | 2  | 59 | 2  | 48 | 2                      | 37 | 2 | 27 | 2 | 17 | 2 | 8  | 23 |            |   |  |
| 8          | 3 | 27                | 3  | 14 | 3  | 3  | 2  | 51 | 2  | 41 | 2                      | 31 | 2 | 21 | 2 | 12 | 2 | 3  | 22 |            |   |  |
| 9          | 3 | 18                | 3  | 6  | 2  | 55 | 2  | 44 | 2  | 34 | 2                      | 24 | 2 | 15 | 2 | 6  | 1 | 58 | 21 |            |   |  |
| 10         | 3 | 9                 | 2  | 58 | 2  | 47 | 2  | 37 | 2  | 27 | 2                      | 18 | 2 | 9  | 2 | 1  | 1 | 52 | 20 |            |   |  |
| 11         | 3 | 0                 | 2  | 49 | 2  | 39 | 2  | 29 | 2  | 20 | 2                      | 11 | 2 | 3  | 1 | 55 | 1 | 47 | 19 |            |   |  |
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| 13         | 2 | 42                | 2  | 32 | 2  | 23 | 2  | 14 | 2  | 6  | 1                      | 58 | 1 | 51 | 1 | 43 | 1 | 36 | 17 |            |   |  |
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| 15         | 2 | 24                | 2  | 15 | 2  | 7  | 1  | 59 | 1  | 52 | 1                      | 45 | 1 | 39 | 1 | 31 | 1 | 25 | 15 |            |   |  |
| 16         | 2 | 14                | 2  | 6  | 1  | 59 | 1  | 51 | 1  | 44 | 1                      | 38 | 1 | 32 | 1 | 25 | 1 | 20 | 14 |            |   |  |
| 17         | 2 | 5                 | 1  | 57 | 1  | 50 | 1  | 43 | 1  | 37 | 1                      | 31 | 1 | 26 | 1 | 19 | 1 | 14 | 13 |            |   |  |
| 18         | 1 | 56                | 1  | 49 | 1  | 42 | 1  | 36 | 1  | 30 | 1                      | 24 | 1 | 19 | 1 | 13 | 1 | 9  | 12 |            |   |  |
| 19         | 1 | 46                | 1  | 40 | 1  | 33 | 1  | 28 | 1  | 22 | 1                      | 17 | 1 | 13 | 1 | 7  | 1 | 3  | 11 |            |   |  |
| 20         | 1 | 37                | 1  | 31 | 1  | 25 | 1  | 20 | 1  | 15 | 1                      | 10 | 1 | 6  | 1 | 1  | 0 | 57 | 10 |            |   |  |
| 21         | 1 | 27                | 1  | 22 | 1  | 17 | 1  | 12 | 1  | 7  | 1                      | 3  | 1 | 0  | 0 | 55 | 0 | 51 | 9  |            |   |  |
| 22         | 1 | 18                | 1  | 13 | 1  | 8  | 1  | 4  | 1  | 0  | 0                      | 56 | 0 | 53 | 0 | 49 | 0 | 46 | 8  |            |   |  |
| 23         | 1 | 8                 | 1  | 4  | 0  | 59 | 0  | 56 | 0  | 52 | 0                      | 49 | 0 | 46 | 0 | 43 | 0 | 40 | 7  |            |   |  |
| 24         | 0 | 59                | 0  | 55 | 0  | 51 | 0  | 48 | 0  | 45 | 0                      | 42 | 0 | 40 | 0 | 37 | 0 | 34 | 6  |            |   |  |
| 25         | 0 | 49                | 0  | 46 | 0  | 42 | 0  | 40 | 0  | 37 | 0                      | 35 | 0 | 33 | 0 | 31 | 0 | 29 | 5  |            |   |  |
| 26         | 0 | 39                | 0  | 37 | 0  | 34 | 0  | 32 | 0  | 30 | 0                      | 28 | 0 | 26 | 0 | 25 | 0 | 23 | 4  |            |   |  |
| 27         | 0 | 29                | 0  | 28 | 0  | 26 | 0  | 24 | 0  | 22 | 0                      | 21 | 0 | 20 | 0 | 19 | 0 | 18 | 3  |            |   |  |
| 28         | 0 | 20                | 0  | 18 | 0  | 17 | 0  | 16 | 0  | 15 | 0                      | 14 | 0 | 13 | 0 | 12 | 0 | 12 | 2  |            |   |  |
| 29         | 0 | 10                | 0  | 9  | 0  | 9  | 0  | 8  | 0  | 8  | 0                      | 7  | 0 | 7  | 0 | 6  | 0 | 6  | 1  |            |   |  |
| 30         | 0 | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                      | 0  | 0 | 0  | 0 | 0  | 0 | 0  | 6  |            |   |  |
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| 0          | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 30         |
| 1          | 0                 | 10 | 0  | 10 | 0  | 10 | 0  | 9  | 29         |
| 2          | 0                 | 21 | 0  | 20 | 0  | 19 | 0  | 18 | 28         |
| 3          | 0                 | 31 | 0  | 30 | 0  | 28 | 0  | 28 | 27         |
| 4          | 0                 | 41 | 0  | 40 | 0  | 38 | 0  | 37 | 26         |
| 5          | 0                 | 52 | 0  | 49 | 0  | 47 | 0  | 46 | 25         |
| 6          | 1                 | 2  | 0  | 59 | 0  | 57 | 0  | 55 | 24         |
| 7          | 1                 | 12 | 1  | 9  | 1  | 6  | 1  | 4  | 23         |
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| 11         | 1                 | 53 | 1  | 49 | 1  | 44 | 1  | 40 | 19         |
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| 13         | 2                 | 14 | 2  | 8  | 2  | 3  | 1  | 58 | 17         |
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| 15         | 2                 | 34 | 2  | 28 | 2  | 22 | 2  | 16 | 15         |
| 16         | 2                 | 44 | 2  | 38 | 2  | 31 | 2  | 25 | 14         |
| 17         | 2                 | 54 | 2  | 47 | 2  | 41 | 2  | 34 | 13         |
| 18         | 3                 | 4  | 2  | 57 | 2  | 50 | 2  | 43 | 12         |
| 19         | 3                 | 14 | 3  | 6  | 3  | 0  | 2  | 52 | 11         |
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| 21         | 3                 | 34 | 3  | 25 | 3  | 18 | 3  | 10 | 9          |
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| 24         | 4                 | 4  | 3  | 54 | 3  | 45 | 3  | 36 | 6          |
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| 26         | 4                 | 23 | 4  | 13 | 4  | 3  | 3  | 53 | 4          |
| 27         | 4                 | 33 | 4  | 22 | 4  | 12 | 4  | 2  | 3          |
| 28         | 4                 | 43 | 4  | 32 | 4  | 21 | 4  | 10 | 2          |
| 29         | 4                 | 52 | 4  | 41 | 4  | 30 | 4  | 19 | 1          |
| 30         | 5                 | 2  | 4  | 50 | 4  | 39 | 4  | 27 | 0          |
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| 0                      | 0 0   | 0 0   | 0 0   | 0 0   | 0 0   | 0 0   | 0 0   | 0 0   | 0 0   | 0 0   | 30         |
| 1                      | 0 26  | 0 25  | 0 25  | 0 24  | 0 24  | 0 23  | 0 23  | 0 22  | 0 22  | 0 22  | 29         |
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|                        | P  | /  | P  | /  | P  | /  | P  | /  | P  | /          |
| 1                      | 12 | 52 | 12 | 36 | 12 | 20 | 12 | 4  | 11 | 49         |
| 1                      | 13 | 17 | 13 | 1  | 12 | 44 | 12 | 28 | 12 | 12         |
| 2                      | 13 | 43 | 13 | 26 | 13 | 9  | 22 | 52 | 12 | 35         |
| 3                      | 14 | 8  | 13 | 51 | 13 | 33 | 14 | 16 | 12 | 59         |
| 4                      | 14 | 34 | 14 | 16 | 13 | 58 | 13 | 40 | 13 | 22         |
| 5                      | 14 | 59 | 14 | 40 | 14 | 22 | 14 | 3  | 13 | 45         |
| 6                      | 15 | 25 | 15 | 5  | 14 | 46 | 14 | 27 | 14 | 8          |
| 7                      | 15 | 50 | 15 | 30 | 15 | 11 | 14 | 50 | 14 | 31         |
| 8                      | 16 | 15 | 15 | 55 | 15 | 35 | 15 | 14 | 14 | 54         |
| 9                      | 16 | 41 | 16 | 20 | 15 | 59 | 15 | 38 | 15 | 17         |
| 10                     | 17 | 6  | 16 | 44 | 16 | 23 | 16 | 2  | 15 | 40         |
| 11                     | 17 | 31 | 17 | 9  | 16 | 47 | 16 | 25 | 16 | 3          |
| 12                     | 17 | 57 | 17 | 34 | 17 | 11 | 16 | 49 | 16 | 26         |
| 13                     | 18 | 22 | 17 | 58 | 17 | 35 | 17 | 12 | 16 | 49         |
| 14                     | 18 | 47 | 18 | 23 | 17 | 59 | 17 | 36 | 17 | 12         |
| 15                     | 19 | 12 | 18 | 47 | 18 | 23 | 17 | 59 | 17 | 34         |
| 16                     | 19 | 37 | 19 | 12 | 18 | 47 | 18 | 22 | 17 | 57         |
| 17                     | 20 | 2  | 19 | 36 | 19 | 11 | 18 | 46 | 18 | 20         |
| 18                     | 20 | 27 | 20 | 1  | 19 | 35 | 19 | 9  | 18 | 42         |
| 19                     | 20 | 52 | 20 | 25 | 19 | 58 | 19 | 32 | 19 | 5          |
| 20                     | 21 | 17 | 20 | 50 | 20 | 22 | 19 | 55 | 19 | 27         |
| 21                     | 21 | 42 | 21 | 14 | 20 | 46 | 20 | 18 | 19 | 50         |
| 22                     | 22 | 7  | 21 | 38 | 21 | 10 | 20 | 41 | 20 | 12         |
| 23                     | 22 | 32 | 22 | 3  | 21 | 33 | 21 | 4  | 20 | 35         |
| 24                     | 22 | 57 | 22 | 27 | 21 | 57 | 21 | 27 | 20 | 57         |
| 25                     | 23 | 21 | 22 | 51 | 22 | 20 | 21 | 50 | 21 | 19         |
| 26                     | 23 | 46 | 23 | 15 | 22 | 44 | 22 | 12 | 21 | 42         |
| 27                     | 24 | 11 | 23 | 39 | 23 | 7  | 22 | 35 | 22 | 4          |
| 28                     | 24 | 35 | 24 | 3  | 23 | 30 | 22 | 58 | 22 | 26         |
| 29                     | 25 | 0  | 24 | 27 | 23 | 54 | 23 | 20 | 22 | 48         |
| 30                     | 25 | 24 | 24 | 50 | 24 | 17 | 23 | 43 | 23 | 9          |
| Subtrahenda            |    |    |    |    |    |    |    |    |    |            |



| Arg. verum | 16    |
|------------|-------|
| 2          | 10 47 |
| 4          | 11 8  |
| 5          | 11 29 |
| 7          | 11 50 |
| 9          | 12 11 |
| 10         | 12 32 |
| 2          | 12 53 |
| 3          | 13 14 |
| 5          | 13 35 |
| 6          | 13 56 |
| 7          | 14 17 |
| 9          | 14 37 |
| 10         | 14 58 |
| 11         | 15 19 |
| 2          | 15 39 |
| 3          | 16 0  |
| 14         | 16 20 |
| 5          | 16 40 |
| 26         | 17 0  |
| 47         | 17 21 |
| 7          | 17 41 |
| 28         | 18 1  |
| 48         | 18 21 |
| 9          | 18 40 |
| 29         | 19 0  |
| 50         | 19 20 |
| 10         | 19 40 |
| 30         | 19 59 |
| 50         | 20 19 |
| 10         | 20 38 |
| 30         | 20 58 |

| Numerus Mysticus.      |       |       |       |       |       |       |       |       |       |    |            | Arg. verum |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|------------|------------|
| Aequatio Orbis addenda |       |       |       |       |       |       |       |       |       |    |            |            |
| 8                      | 9     | 10    | 11    | 12    | 13    | 14    | 15    | 16    |       |    |            |            |
| P                      | P     | P     | P     | P     | P     | P     | P     | P     | P     | P  |            |            |
| 2                      | 25 24 | 24 50 | 24 17 | 23 43 | 23 9  | 22 36 | 22 3  | 21 30 | 20 58 | 30 | Arg. verum |            |
| 1                      | 25 49 | 25 14 | 24 40 | 24 5  | 23 31 | 22 57 | 22 24 | 21 50 | 21 17 | 29 |            |            |
| 2                      | 26 13 | 25 38 | 25 3  | 24 28 | 23 53 | 23 18 | 22 44 | 22 10 | 21 36 | 28 |            |            |
| 3                      | 26 38 | 26 1  | 25 26 | 24 50 | 24 15 | 23 39 | 23 4  | 22 30 | 21 55 | 27 | Arg. verum |            |
| 4                      | 27 2  | 26 25 | 25 48 | 25 12 | 24 36 | 24 0  | 23 24 | 22 49 | 22 14 | 26 |            |            |
| 5                      | 27 26 | 26 49 | 26 11 | 25 34 | 24 58 | 24 21 | 23 44 | 23 9  | 22 32 | 25 |            |            |
| 6                      | 27 50 | 27 12 | 26 34 | 25 56 | 25 19 | 24 41 | 24 4  | 23 28 | 22 51 | 24 | Arg. verum |            |
| 7                      | 28 14 | 27 35 | 26 56 | 26 18 | 25 40 | 25 2  | 24 24 | 23 47 | 23 9  | 23 |            |            |
| 8                      | 28 38 | 27 59 | 27 19 | 26 40 | 26 1  | 25 22 | 24 44 | 24 6  | 23 28 | 22 |            |            |
| 9                      | 29 2  | 28 22 | 27 42 | 27 1  | 26 22 | 25 43 | 25 3  | 24 25 | 23 46 | 21 | Arg. verum |            |
| 10                     | 29 26 | 28 45 | 28 4  | 27 23 | 26 43 | 26 3  | 25 23 | 24 44 | 24 5  | 20 |            |            |
| 11                     | 29 50 | 29 8  | 28 27 | 27 44 | 27 4  | 26 23 | 25 42 | 25 3  | 24 23 | 19 |            |            |
| 12                     | 30 14 | 29 31 | 28 49 | 28 6  | 27 25 | 26 43 | 26 2  | 25 21 | 24 41 | 18 | Arg. verum |            |
| 13                     | 30 37 | 29 54 | 29 11 | 28 27 | 27 45 | 27 3  | 26 21 | 25 40 | 24 59 | 17 |            |            |
| 14                     | 31 1  | 30 17 | 29 33 | 28 49 | 28 6  | 27 23 | 26 40 | 25 58 | 25 16 | 16 |            |            |
| 15                     | 31 24 | 30 40 | 29 55 | 29 10 | 28 26 | 27 43 | 26 59 | 26 16 | 25 34 | 15 | Arg. verum |            |
| 16                     | 31 48 | 31 2  | 30 16 | 29 31 | 28 46 | 28 2  | 27 18 | 26 34 | 25 51 | 14 |            |            |
| 17                     | 32 11 | 31 25 | 30 38 | 29 52 | 29 7  | 28 21 | 27 37 | 26 52 | 26 8  | 13 |            |            |
| 18                     | 32 34 | 31 47 | 31 0  | 30 13 | 29 27 | 28 40 | 27 55 | 27 10 | 26 25 | 12 | Arg. verum |            |
| 19                     | 32 57 | 32 9  | 31 21 | 30 34 | 29 47 | 28 59 | 28 13 | 27 28 | 26 42 | 11 |            |            |
| 20                     | 33 20 | 32 31 | 31 43 | 30 54 | 30 6  | 29 18 | 28 31 | 27 45 | 26 59 | 10 |            |            |
| 21                     | 33 43 | 32 53 | 32 4  | 31 15 | 30 26 | 29 37 | 28 49 | 28 2  | 27 16 | 9  | Arg. verum |            |
| 22                     | 34 6  | 33 15 | 32 25 | 31 35 | 30 45 | 29 56 | 29 7  | 28 19 | 27 32 | 8  |            |            |
| 23                     | 34 28 | 33 37 | 32 46 | 31 55 | 31 5  | 30 15 | 29 25 | 28 36 | 27 48 | 7  |            |            |
| 24                     | 34 51 | 33 59 | 33 7  | 32 15 | 31 24 | 30 33 | 29 43 | 28 53 | 28 4  | 6  | Arg. verum |            |
| 25                     | 35 13 | 34 20 | 33 28 | 32 35 | 31 43 | 30 51 | 30 0  | 29 10 | 28 20 | 5  |            |            |
| 26                     | 35 36 | 34 42 | 33 48 | 32 55 | 32 2  | 31 9  | 30 17 | 29 26 | 28 35 | 4  |            |            |
| 27                     | 35 58 | 35 3  | 34 9  | 33 14 | 32 21 | 31 27 | 30 34 | 29 42 | 28 51 | 3  | Arg. verum |            |
| 28                     | 36 21 | 35 25 | 34 29 | 33 34 | 32 39 | 31 45 | 30 51 | 29 58 | 29 6  | 2  |            |            |
| 29                     | 36 43 | 35 46 | 34 49 | 33 53 | 32 57 | 32 2  | 31 8  | 30 14 | 29 21 | 1  |            |            |
| 30                     | 37 5  | 36 7  | 35 9  | 34 12 | 33 15 | 32 19 | 31 24 | 30 29 | 29 35 | 9  | Arg. verum |            |
| Subtrahenda            |       |       |       |       |       |       |       |       |       |    |            |            |
|                        |       |       |       |       |       |       |       |       |       |    |            |            |
|                        |       |       |       |       |       |       |       |       |       |    |            |            |

| Arg. verum |  | Numerus Mysticus.      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Arg. verum |    |
|------------|--|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|----|
|            |  | Acquatio Orbis addenda |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |            |    |
|            |  | 8                      | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |    |    |    |    |            |    |
|            |  | P                      | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P  | /  | P          | /  |
| 3          |  | 37                     | 5  | 36 | 7  | 35 | 9  | 34 | 12 | 33 | 15 | 32 | 19 | 31 | 24 | 30 | 29 | 29         | 35 |
| 1          |  | 37                     | 26 | 36 | 28 | 35 | 29 | 34 | 31 | 33 | 33 | 32 | 36 | 31 | 40 | 30 | 45 | 29         | 50 |
| 2          |  | 37                     | 48 | 36 | 48 | 35 | 48 | 34 | 50 | 33 | 51 | 32 | 53 | 31 | 56 | 31 | 0  | 30         | 4  |
| 3          |  | 38                     | 9  | 37 | 9  | 36 | 8  | 35 | 8  | 34 | 9  | 33 | 10 | 32 | 12 | 31 | 15 | 30         | 18 |
| 4          |  | 38                     | 31 | 37 | 29 | 36 | 27 | 35 | 26 | 34 | 26 | 33 | 26 | 32 | 27 | 31 | 29 | 30         | 32 |
| 5          |  | 38                     | 52 | 37 | 49 | 36 | 46 | 35 | 44 | 34 | 43 | 33 | 42 | 32 | 43 | 31 | 44 | 30         | 46 |
| 6          |  | 39                     | 13 | 38 | 9  | 37 | 5  | 36 | 2  | 35 | 0  | 33 | 58 | 32 | 58 | 31 | 58 | 30         | 59 |
| 7          |  | 39                     | 34 | 38 | 29 | 37 | 24 | 36 | 20 | 35 | 17 | 34 | 14 | 33 | 13 | 32 | 12 | 31         | 12 |
| 8          |  | 39                     | 54 | 38 | 48 | 37 | 42 | 36 | 37 | 35 | 33 | 34 | 29 | 33 | 27 | 32 | 25 | 31         | 25 |
| 9          |  | 40                     | 15 | 39 | 7  | 38 | 1  | 36 | 54 | 35 | 49 | 34 | 45 | 33 | 41 | 32 | 38 | 31         | 37 |
| 10         |  | 40                     | 35 | 39 | 26 | 38 | 19 | 37 | 11 | 36 | 5  | 35 | 0  | 33 | 55 | 32 | 51 | 31         | 49 |
| 11         |  | 40                     | 55 | 39 | 45 | 38 | 37 | 37 | 28 | 36 | 21 | 35 | 15 | 34 | 9  | 33 | 4  | 32         | 1  |
| 12         |  | 41                     | 15 | 40 | 4  | 38 | 54 | 37 | 44 | 36 | 36 | 35 | 29 | 34 | 22 | 33 | 16 | 32         | 12 |
| 13         |  | 41                     | 35 | 40 | 23 | 39 | 11 | 38 | 0  | 36 | 51 | 35 | 43 | 34 | 35 | 33 | 28 | 32         | 23 |
| 14         |  | 41                     | 54 | 40 | 41 | 39 | 28 | 38 | 17 | 37 | 6  | 35 | 56 | 34 | 48 | 33 | 40 | 32         | 34 |
| 15         |  | 42                     | 13 | 40 | 59 | 39 | 45 | 38 | 32 | 37 | 20 | 36 | 10 | 35 | 0  | 33 | 52 | 32         | 45 |
| 16         |  | 42                     | 32 | 41 | 16 | 40 | 1  | 38 | 47 | 37 | 34 | 36 | 23 | 35 | 12 | 34 | 3  | 32         | 55 |
| 17         |  | 42                     | 51 | 41 | 34 | 40 | 18 | 39 | 2  | 37 | 48 | 36 | 36 | 35 | 24 | 34 | 14 | 33         | 5  |
| 18         |  | 43                     | 9  | 41 | 51 | 40 | 34 | 39 | 17 | 38 | 2  | 36 | 48 | 35 | 35 | 34 | 24 | 33         | 14 |
| 19         |  | 43                     | 28 | 42 | 8  | 40 | 49 | 39 | 31 | 38 | 15 | 37 | 0  | 35 | 46 | 34 | 34 | 33         | 23 |
| 20         |  | 43                     | 46 | 42 | 24 | 41 | 4  | 39 | 45 | 38 | 28 | 37 | 11 | 35 | 56 | 34 | 43 | 33         | 31 |
| 21         |  | 44                     | 4  | 42 | 41 | 41 | 19 | 39 | 59 | 38 | 40 | 37 | 22 | 36 | 6  | 34 | 52 | 33         | 39 |
| 22         |  | 44                     | 21 | 42 | 57 | 41 | 34 | 40 | 12 | 38 | 52 | 37 | 33 | 36 | 16 | 35 | 0  | 33         | 46 |
| 23         |  | 44                     | 38 | 43 | 12 | 41 | 48 | 40 | 25 | 39 | 4  | 37 | 43 | 36 | 25 | 35 | 8  | 33         | 53 |
| 24         |  | 44                     | 54 | 43 | 27 | 42 | 2  | 40 | 37 | 39 | 15 | 37 | 53 | 36 | 34 | 35 | 16 | 34         | 0  |
| 25         |  | 45                     | 11 | 43 | 42 | 42 | 15 | 40 | 49 | 39 | 26 | 38 | 3  | 36 | 42 | 35 | 23 | 34         | 6  |
| 26         |  | 45                     | 27 | 43 | 57 | 42 | 28 | 41 | 1  | 39 | 36 | 38 | 12 | 36 | 50 | 35 | 30 | 34         | 12 |
| 27         |  | 45                     | 43 | 44 | 11 | 42 | 41 | 41 | 12 | 39 | 46 | 38 | 20 | 36 | 57 | 35 | 36 | 34         | 17 |
| 28         |  | 45                     | 58 | 44 | 24 | 42 | 53 | 41 | 23 | 39 | 55 | 38 | 28 | 37 | 4  | 35 | 42 | 34         | 21 |
| 29         |  | 46                     | 13 | 44 | 37 | 43 | 5  | 41 | 33 | 40 | 4  | 38 | 36 | 37 | 10 | 35 | 47 | 34         | 25 |
| 30         |  | 46                     | 27 | 44 | 50 | 43 | 16 | 41 | 43 | 40 | 12 | 38 | 43 | 37 | 16 | 35 | 51 | 34         | 29 |
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| 9          | 29 35 |
| 5          | 29 50 |
| 0          | 30 4  |
| 5          | 30 18 |
| 9          | 30 32 |
| 4          | 30 46 |
| 8          | 30 59 |
| 2          | 31 12 |
| 5          | 31 25 |
| 8          | 31 37 |
| 1          | 31 49 |
| 4          | 32 1  |
| 6          | 32 12 |
| 8          | 32 23 |
| 0          | 32 34 |
| 2          | 32 45 |
| 3          | 32 55 |
| 4          | 33 5  |
| 4          | 33 14 |
| 4          | 33 23 |
| 3          | 33 31 |
| 2          | 33 39 |
| 0          | 33 46 |
| 8          | 33 53 |
| 6          | 34 0  |
| 3          | 34 6  |
| 0          | 34 12 |
| 6          | 34 17 |
| 2          | 34 21 |
| 7          | 34 25 |
| 1          | 34 29 |

| Arg. verum |   | Numerus Mysticus.      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    | Arg. verum |    |    |
|------------|---|------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------------|----|----|
|            |   | 8                      | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |    |    |    |    |    |    |            |    |    |
|            |   | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |            |    |    |
|            |   | P                      | I  | P  | I  | P  | I  | P  | I  | P  | I  | P  | I  | P  | I  | P  | I  |            |    |    |
| 4          |   | 46                     | 27 | 44 | 50 | 43 | 16 | 41 | 43 | 40 | 12 | 38 | 43 | 37 | 16 | 35 | 51 | 34         | 29 | 30 |
|            | 1 | 46                     | 41 | 45 | 2  | 43 | 27 | 41 | 52 | 40 | 19 | 38 | 49 | 37 | 21 | 35 | 55 | 34         | 32 | 29 |
| 2          |   | 46                     | 54 | 45 | 14 | 43 | 37 | 42 | 0  | 40 | 26 | 38 | 55 | 37 | 25 | 35 | 58 | 34         | 34 | 28 |
| 3          |   | 47                     | 7  | 45 | 25 | 43 | 46 | 42 | 8  | 40 | 33 | 39 | 0  | 37 | 29 | 36 | 1  | 34         | 36 | 27 |
| 4          |   | 47                     | 20 | 45 | 36 | 43 | 55 | 42 | 15 | 40 | 39 | 39 | 4  | 37 | 32 | 36 | 3  | 34         | 36 | 26 |
| 5          |   | 47                     | 32 | 45 | 46 | 44 | 3  | 42 | 22 | 40 | 44 | 39 | 8  | 37 | 35 | 36 | 4  | 34         | 36 | 25 |
| 6          |   | 47                     | 43 | 45 | 56 | 44 | 11 | 42 | 28 | 40 | 48 | 39 | 11 | 37 | 36 | 36 | 4  | 34         | 35 | 24 |
| 7          |   | 47                     | 54 | 46 | 5  | 44 | 18 | 42 | 33 | 40 | 52 | 39 | 13 | 37 | 37 | 36 | 4  | 34         | 33 | 23 |
| 8          |   | 48                     | 4  | 46 | 13 | 44 | 24 | 42 | 38 | 40 | 55 | 39 | 14 | 37 | 37 | 36 | 3  | 34         | 32 | 22 |
| 9          |   | 48                     | 14 | 46 | 20 | 44 | 30 | 42 | 42 | 40 | 56 | 39 | 15 | 37 | 36 | 36 | 1  | 34         | 29 | 21 |
| 10         |   | 48                     | 23 | 46 | 27 | 44 | 35 | 42 | 45 | 40 | 58 | 39 | 15 | 37 | 35 | 35 | 58 | 34         | 25 | 20 |
| 11         |   | 48                     | 31 | 46 | 33 | 44 | 39 | 42 | 47 | 40 | 58 | 39 | 14 | 37 | 32 | 35 | 55 | 34         | 20 | 19 |
| 12         |   | 48                     | 39 | 46 | 39 | 44 | 42 | 42 | 48 | 40 | 58 | 39 | 12 | 37 | 29 | 35 | 50 | 34         | 14 | 18 |
| 13         |   | 48                     | 46 | 46 | 43 | 44 | 44 | 42 | 48 | 40 | 57 | 39 | 9  | 37 | 24 | 35 | 44 | 34         | 7  | 17 |
| 14         |   | 48                     | 51 | 46 | 46 | 44 | 45 | 42 | 48 | 40 | 54 | 39 | 5  | 37 | 19 | 35 | 38 | 34         | 0  | 16 |
| 15         |   | 48                     | 56 | 46 | 48 | 44 | 46 | 42 | 46 | 40 | 50 | 39 | 0  | 37 | 13 | 35 | 30 | 33         | 51 | 15 |
| 16         |   | 49                     | 0  | 46 | 50 | 44 | 45 | 42 | 43 | 40 | 46 | 38 | 54 | 37 | 5  | 35 | 21 | 33         | 42 | 14 |
| 17         |   | 49                     | 3  | 46 | 50 | 44 | 43 | 42 | 39 | 40 | 40 | 38 | 46 | 36 | 56 | 35 | 12 | 33         | 31 | 13 |
| 18         |   | 49                     | 4  | 46 | 50 | 44 | 40 | 42 | 34 | 40 | 34 | 38 | 38 | 36 | 47 | 35 | 1  | 33         | 19 | 12 |
| 19         |   | 49                     | 5  | 46 | 47 | 44 | 36 | 42 | 28 | 40 | 26 | 38 | 28 | 36 | 35 | 34 | 49 | 33         | 6  | 11 |
| 20         |   | 49                     | 5  | 46 | 44 | 44 | 30 | 42 | 20 | 40 | 16 | 38 | 17 | 36 | 23 | 34 | 35 | 32         | 52 | 10 |
| 21         |   | 49                     | 3  | 46 | 39 | 44 | 23 | 42 | 11 | 40 | 5  | 38 | 5  | 36 | 9  | 34 | 20 | 32         | 36 | 9  |
| 22         |   | 49                     | 0  | 46 | 34 | 44 | 14 | 42 | 0  | 39 | 53 | 37 | 51 | 35 | 54 | 34 | 4  | 32         | 19 | 8  |
| 23         |   | 48                     | 55 | 46 | 27 | 44 | 4  | 41 | 48 | 39 | 39 | 37 | 35 | 35 | 38 | 33 | 47 | 32         | 1  | 7  |
| 24         |   | 48                     | 49 | 46 | 18 | 43 | 53 | 41 | 35 | 39 | 23 | 37 | 18 | 35 | 20 | 33 | 28 | 31         | 42 | 6  |
| 25         |   | 48                     | 41 | 46 | 7  | 43 | 40 | 41 | 20 | 39 | 6  | 37 | 0  | 35 | 0  | 33 | 7  | 31         | 21 | 5  |
| 26         |   | 48                     | 31 | 45 | 54 | 43 | 24 | 41 | 2  | 38 | 43 | 36 | 39 | 34 | 39 | 32 | 45 | 30         | 58 | 4  |
| 27         |   | 48                     | 20 | 45 | 39 | 43 | 7  | 40 | 43 | 38 | 26 | 36 | 17 | 34 | 16 | 32 | 21 | 30         | 34 | 3  |
| 28         |   | 48                     | 7  | 45 | 23 | 42 | 48 | 40 | 22 | 38 | 3  | 35 | 53 | 33 | 51 | 31 | 56 | 30         | 8  | 2  |
| 29         |   | 47                     | 51 | 45 | 4  | 42 | 27 | 39 | 58 | 37 | 38 | 35 | 27 | 33 | 24 | 31 | 29 | 29         | 41 | 1  |
| 30         |   | 47                     | 33 | 44 | 43 | 42 | 3  | 39 | 33 | 37 | 11 | 34 | 59 | 32 | 55 | 31 | 0  | 29         | 11 | 7  |
|            |   | Subtrahenda            |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |            |    |    |

Subtrahenda

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| Arg. verum |    | Numerus Mysticus.      |    |    |    |    |    |    |    |    |    | Arg. verum |    |    |    |    |    |    |    |
|------------|----|------------------------|----|----|----|----|----|----|----|----|----|------------|----|----|----|----|----|----|----|
|            |    | 8                      | 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |    |            |    |    |    |    |    |    |    |
|            |    | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |    |            |    |    |    |    |    |    |    |
|            | P  | i                      | P  | i  | P  | i  | P  | i  | P  | i  | P  | i          | P  | i  | P  | i  | P  | i  |    |
| 5          | 47 | 33                     | 44 | 43 | 42 | 3  | 39 | 33 | 37 | 11 | 34 | 59         | 32 | 55 | 31 | 0  | 29 | 11 | 30 |
| 1          | 47 | 12                     | 44 | 20 | 41 | 37 | 39 | 5  | 36 | 41 | 34 | 29         | 32 | 25 | 30 | 29 | 28 | 40 | 29 |
| 2          | 46 | 50                     | 43 | 54 | 41 | 9  | 38 | 34 | 36 | 10 | 33 | 57         | 31 | 52 | 29 | 56 | 28 | 8  | 28 |
| 3          | 46 | 24                     | 43 | 25 | 40 | 38 | 38 | 1  | 35 | 36 | 33 | 22         | 31 | 17 | 29 | 21 | 27 | 34 | 27 |
| 4          | 45 | 55                     | 42 | 53 | 40 | 3  | 37 | 26 | 35 | 0  | 32 | 45         | 30 | 40 | 28 | 44 | 26 | 57 | 26 |
| 5          | 45 | 23                     | 42 | 18 | 39 | 26 | 36 | 47 | 34 | 20 | 32 | 5          | 30 | 0  | 28 | 5  | 26 | 19 | 25 |
| 6          | 44 | 47                     | 41 | 39 | 38 | 45 | 36 | 5  | 33 | 38 | 31 | 23         | 29 | 18 | 27 | 24 | 25 | 38 | 24 |
| 7          | 44 | 7                      | 40 | 56 | 38 | 1  | 35 | 20 | 32 | 53 | 30 | 38         | 28 | 33 | 26 | 40 | 24 | 56 | 23 |
| 8          | 43 | 24                     | 40 | 10 | 37 | 13 | 34 | 32 | 32 | 4  | 29 | 49         | 27 | 46 | 25 | 54 | 24 | 11 | 22 |
| 9          | 42 | 36                     | 39 | 20 | 36 | 21 | 33 | 40 | 31 | 12 | 28 | 59         | 26 | 57 | 25 | 6  | 23 | 24 | 21 |
| 10         | 41 | 43                     | 38 | 25 | 35 | 26 | 32 | 44 | 30 | 18 | 28 | 6          | 26 | 5  | 24 | 16 | 22 | 36 | 20 |
| 11         | 40 | 45                     | 37 | 26 | 34 | 27 | 31 | 45 | 29 | 20 | 27 | 9          | 25 | 10 | 23 | 23 | 21 | 45 | 19 |
| 12         | 39 | 42                     | 36 | 21 | 33 | 22 | 30 | 42 | 28 | 18 | 26 | 9          | 24 | 13 | 22 | 28 | 20 | 53 | 18 |
| 13         | 38 | 32                     | 35 | 11 | 32 | 12 | 29 | 34 | 27 | 13 | 25 | 6          | 23 | 12 | 21 | 30 | 19 | 58 | 17 |
| 14         | 37 | 17                     | 33 | 56 | 30 | 59 | 28 | 22 | 26 | 4  | 24 | 0          | 22 | 9  | 20 | 30 | 19 | 1  | 16 |
| 15         | 35 | 54                     | 32 | 35 | 29 | 40 | 27 | 6  | 24 | 51 | 22 | 51         | 21 | 3  | 19 | 27 | 18 | 2  | 15 |
| 16         | 34 | 25                     | 31 | 8  | 28 | 16 | 25 | 46 | 23 | 34 | 21 | 38         | 19 | 55 | 18 | 22 | 17 | 1  | 14 |
| 17         | 32 | 49                     | 29 | 34 | 26 | 46 | 24 | 21 | 22 | 14 | 20 | 22         | 18 | 43 | 17 | 15 | 15 | 58 | 13 |
| 18         | 31 | 4                      | 27 | 54 | 25 | 11 | 22 | 51 | 20 | 49 | 19 | 3          | 17 | 29 | 16 | 6  | 14 | 52 | 12 |
| 19         | 29 | 11                     | 26 | 7  | 23 | 30 | 21 | 16 | 19 | 21 | 17 | 41         | 16 | 12 | 14 | 54 | 13 | 45 | 11 |
| 20         | 27 | 9                      | 24 | 13 | 21 | 44 | 19 | 38 | 17 | 49 | 16 | 15         | 14 | 53 | 13 | 38 | 12 | 37 | 10 |
| 21         | 24 | 59                     | 22 | 12 | 19 | 53 | 17 | 55 | 16 | 14 | 14 | 47         | 13 | 31 | 12 | 23 | 11 | 26 | 9  |
| 22         | 22 | 40                     | 20 | 5  | 17 | 56 | 16 | 8  | 14 | 36 | 13 | 16         | 12 | 7  | 11 | 17 | 10 | 14 | 8  |
| 23         | 20 | 12                     | 17 | 51 | 15 | 55 | 14 | 17 | 12 | 54 | 11 | 43         | 10 | 41 | 9  | 48 | 9  | 1  | 7  |
| 24         | 17 | 39                     | 15 | 31 | 13 | 48 | 12 | 22 | 11 | 9  | 10 | 7          | 9  | 13 | 8  | 27 | 7  | 46 | 6  |
| 25         | 14 | 56                     | 13 | 6  | 11 | 39 | 10 | 24 | 9  | 21 | 8  | 29         | 7  | 44 | 7  | 5  | 6  | 30 | 5  |
| 26         | 12 | 5                      | 10 | 35 | 9  | 23 | 8  | 22 | 7  | 32 | 6  | 49         | 6  | 13 | 5  | 41 | 5  | 13 | 4  |
| 27         | 9  | 9                      | 8  | 0  | 7  | 5  | 6  | 19 | 5  | 41 | 5  | 8          | 4  | 41 | 4  | 17 | 3  | 55 | 3  |
| 28         | 6  | 9                      | 5  | 22 | 4  | 44 | 4  | 14 | 3  | 48 | 3  | 26         | 3  | 8  | 2  | 51 | 2  | 37 | 2  |
| 29         | 3  | 5                      | 2  | 42 | 2  | 23 | 2  | 8  | 1  | 54 | 1  | 43         | 1  | 34 | 1  | 26 | 1  | 18 | 1  |
| 30         | 0  | 0                      | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0          | 0  | 0  | 0  | 0  | 0  | 0  | 0  |
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| 10 14      | 9  |
| 9 1        | 8  |
| 7 46       | 7  |
| 6 30       | 6  |
| 5 13       | 5  |
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| 2 37       | 3  |
| 1 18       | 2  |
| 0 0        | 1  |
|            | 0  |

| Arg. verum  |   | Numerus Mysticus. |    |    |    |    |    |    |    |    |                        |    |   |    |   |    |   | Arg. verum |   |  |
|-------------|---|-------------------|----|----|----|----|----|----|----|----|------------------------|----|---|----|---|----|---|------------|---|--|
|             |   | 24                | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | Aequatio Orbis addenda |    |   |    |   |    |   |            |   |  |
| P           | / | P                 | /  | P  | /  | P  | /  | P  | /  | P  | /                      | P  | / | P  | / | P  | / | P          | / |  |
| 0           | 0 | 0                 | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0                      | 0  | 0 | 0  | 0 | 0  | 0 | 30         |   |  |
| 1           | 0 | 18                | 0  | 17 | 0  | 16 | 0  | 16 | 0  | 16 | 0                      | 15 | 0 | 15 | 0 | 14 | 0 | 29         |   |  |
| 2           | 0 | 36                | 0  | 35 | 0  | 34 | 0  | 33 | 0  | 32 | 0                      | 31 | 0 | 30 | 0 | 29 | 0 | 28         |   |  |
| 3           | 0 | 53                | 0  | 52 | 0  | 51 | 0  | 49 | 0  | 48 | 0                      | 47 | 0 | 45 | 0 | 44 | 0 | 42         |   |  |
| 4           | 1 | 11                | 1  | 9  | 1  | 7  | 1  | 6  | 1  | 4  | 1                      | 2  | 1 | 0  | 0 | 58 | 0 | 56         |   |  |
| 5           | 1 | 29                | 1  | 27 | 1  | 24 | 1  | 22 | 1  | 20 | 1                      | 18 | 1 | 15 | 1 | 13 | 1 | 11         |   |  |
| 6           | 1 | 47                | 1  | 44 | 1  | 41 | 1  | 38 | 1  | 35 | 1                      | 33 | 1 | 30 | 1 | 27 | 1 | 25         |   |  |
| 7           | 2 | 5                 | 2  | 1  | 1  | 58 | 1  | 55 | 1  | 51 | 1                      | 48 | 1 | 45 | 1 | 42 | 1 | 39         |   |  |
| 8           | 2 | 22                | 2  | 18 | 2  | 15 | 2  | 11 | 2  | 7  | 2                      | 3  | 2 | 0  | 1 | 56 | 1 | 53         |   |  |
| 9           | 2 | 40                | 2  | 36 | 2  | 31 | 2  | 27 | 2  | 23 | 2                      | 19 | 2 | 15 | 2 | 11 | 2 | 7          |   |  |
| 10          | 2 | 58                | 2  | 53 | 2  | 48 | 2  | 44 | 2  | 39 | 2                      | 34 | 2 | 30 | 2 | 25 | 2 | 21         |   |  |
| 11          | 3 | 15                | 3  | 10 | 3  | 5  | 3  | 0  | 2  | 55 | 2                      | 50 | 2 | 45 | 2 | 40 | 2 | 35         |   |  |
| 12          | 3 | 33                | 3  | 27 | 3  | 22 | 3  | 16 | 3  | 11 | 3                      | 5  | 3 | 0  | 2 | 54 | 2 | 49         |   |  |
| 13          | 3 | 51                | 3  | 45 | 3  | 38 | 3  | 33 | 3  | 26 | 3                      | 21 | 3 | 15 | 3 | 9  | 3 | 3          |   |  |
| 14          | 4 | 8                 | 4  | 2  | 3  | 55 | 3  | 49 | 3  | 42 | 3                      | 36 | 3 | 30 | 3 | 23 | 3 | 17         |   |  |
| 15          | 4 | 26                | 4  | 19 | 4  | 12 | 4  | 5  | 3  | 58 | 3                      | 51 | 3 | 44 | 3 | 38 | 3 | 30         |   |  |
| 16          | 4 | 44                | 4  | 36 | 4  | 28 | 4  | 21 | 4  | 13 | 4                      | 6  | 3 | 59 | 3 | 52 | 3 | 44         |   |  |
| 17          | 5 | 1                 | 4  | 53 | 4  | 45 | 4  | 37 | 4  | 29 | 4                      | 22 | 4 | 14 | 4 | 6  | 3 | 58         |   |  |
| 18          | 5 | 19                | 5  | 10 | 5  | 1  | 4  | 53 | 4  | 45 | 4                      | 37 | 4 | 29 | 4 | 20 | 4 | 12         |   |  |
| 19          | 5 | 36                | 5  | 27 | 5  | 18 | 5  | 9  | 5  | 0  | 4                      | 52 | 4 | 44 | 4 | 34 | 4 | 26         |   |  |
| 20          | 5 | 54                | 5  | 44 | 5  | 34 | 5  | 25 | 5  | 16 | 5                      | 7  | 4 | 58 | 4 | 48 | 4 | 40         |   |  |
| 21          | 6 | 11                | 6  | 1  | 5  | 50 | 5  | 41 | 5  | 31 | 5                      | 22 | 5 | 13 | 5 | 3  | 4 | 53         |   |  |
| 22          | 6 | 29                | 6  | 18 | 6  | 7  | 5  | 57 | 5  | 47 | 5                      | 37 | 5 | 27 | 5 | 17 | 5 | 7          |   |  |
| 23          | 6 | 46                | 6  | 35 | 6  | 23 | 6  | 13 | 6  | 2  | 5                      | 52 | 5 | 42 | 5 | 31 | 5 | 21         |   |  |
| 24          | 7 | 4                 | 6  | 52 | 6  | 40 | 6  | 29 | 6  | 18 | 6                      | 7  | 5 | 56 | 5 | 45 | 5 | 34         |   |  |
| 25          | 7 | 21                | 7  | 9  | 6  | 56 | 6  | 45 | 6  | 33 | 6                      | 22 | 6 | 10 | 5 | 59 | 5 | 48         |   |  |
| 26          | 7 | 38                | 7  | 26 | 7  | 13 | 7  | 1  | 6  | 49 | 6                      | 37 | 6 | 25 | 6 | 13 | 6 | 1          |   |  |
| 27          | 7 | 56                | 7  | 42 | 7  | 30 | 7  | 17 | 7  | 4  | 6                      | 51 | 6 | 39 | 6 | 27 | 6 | 15         |   |  |
| 28          | 8 | 13                | 7  | 59 | 7  | 46 | 7  | 33 | 7  | 19 | 7                      | 6  | 6 | 53 | 6 | 41 | 6 | 28         |   |  |
| 29          | 8 | 30                | 8  | 16 | 8  | 2  | 7  | 49 | 7  | 35 | 7                      | 21 | 7 | 8  | 6 | 55 | 6 | 41         |   |  |
| 30          | 8 | 47                | 8  | 32 | 8  | 18 | 8  | 4  | 7  | 50 | 7                      | 36 | 7 | 22 | 7 | 9  | 6 | 55         |   |  |
| Subtrahenda |   |                   |    |    |    |    |    |    |    |    |                        |    |   |    |   |    |   |            |   |  |

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| Arg. verum |  | 24                      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | Arg. verum |    |    |
|            |  | Aequatio Orbis addenda. |    |    |    |    |    |    |    |    |            |    |    |
|            |  | P                       | i  | P  | i  | P  | i  | P  | i  | P  | i          | P  | i  |
| I          |  | 8                       | 47 | 8  | 32 | 8  | 18 | 8  | 4  | 7  | 50         | 7  | 36 |
| 1          |  | 9                       | 4  | 8  | 48 | 8  | 34 | 8  | 20 | 8  | 5          | 7  | 50 |
| 2          |  | 9                       | 21 | 9  | 5  | 8  | 50 | 8  | 35 | 8  | 20         | 8  | 5  |
| 3          |  | 9                       | 38 | 9  | 21 | 9  | 6  | 8  | 51 | 8  | 35         | 8  | 19 |
| 4          |  | 9                       | 55 | 9  | 38 | 9  | 22 | 9  | 6  | 8  | 50         | 8  | 34 |
| 5          |  | 10                      | 11 | 9  | 54 | 9  | 38 | 9  | 22 | 9  | 5          | 8  | 48 |
| 6          |  | 10                      | 28 | 10 | 11 | 9  | 54 | 9  | 37 | 9  | 20         | 9  | 3  |
| 7          |  | 10                      | 45 | 10 | 27 | 10 | 10 | 9  | 52 | 9  | 34         | 9  | 17 |
| 8          |  | 11                      | 2  | 10 | 43 | 10 | 25 | 10 | 7  | 9  | 49         | 9  | 31 |
| 9          |  | 11                      | 18 | 10 | 59 | 10 | 41 | 10 | 22 | 10 | 3          | 9  | 46 |
| 10         |  | 11                      | 35 | 11 | 15 | 10 | 56 | 10 | 37 | 10 | 18         | 10 | 0  |
| 11         |  | 11                      | 51 | 11 | 31 | 11 | 12 | 10 | 52 | 10 | 32         | 10 | 14 |
| 12         |  | 12                      | 8  | 11 | 47 | 11 | 27 | 11 | 7  | 10 | 47         | 10 | 28 |
| 13         |  | 12                      | 24 | 12 | 3  | 11 | 42 | 11 | 21 | 11 | 1          | 10 | 42 |
| 14         |  | 12                      | 40 | 12 | 19 | 11 | 57 | 11 | 36 | 11 | 16         | 10 | 55 |
| 15         |  | 12                      | 56 | 12 | 34 | 12 | 13 | 11 | 51 | 11 | 30         | 11 | 9  |
| 16         |  | 13                      | 12 | 12 | 50 | 12 | 28 | 12 | 6  | 11 | 44         | 11 | 22 |
| 17         |  | 13                      | 28 | 13 | 5  | 12 | 43 | 12 | 20 | 11 | 58         | 11 | 36 |
| 18         |  | 13                      | 44 | 13 | 21 | 12 | 58 | 12 | 35 | 12 | 12         | 11 | 49 |
| 19         |  | 14                      | 0  | 13 | 36 | 13 | 13 | 12 | 49 | 12 | 26         | 12 | 3  |
| 20         |  | 14                      | 16 | 13 | 51 | 13 | 27 | 13 | 3  | 12 | 39         | 12 | 16 |
| 21         |  | 14                      | 31 | 14 | 6  | 13 | 42 | 13 | 17 | 12 | 53         | 12 | 29 |
| 22         |  | 14                      | 47 | 14 | 21 | 13 | 56 | 13 | 31 | 13 | 6          | 12 | 42 |
| 23         |  | 15                      | 2  | 14 | 36 | 14 | 11 | 13 | 45 | 13 | 20         | 12 | 55 |
| 24         |  | 15                      | 17 | 14 | 51 | 14 | 25 | 13 | 59 | 13 | 33         | 13 | 8  |
| 25         |  | 15                      | 33 | 15 | 5  | 14 | 39 | 14 | 13 | 13 | 46         | 13 | 21 |
| 26         |  | 15                      | 48 | 15 | 20 | 14 | 53 | 14 | 26 | 13 | 59         | 13 | 33 |
| 27         |  | 16                      | 3  | 15 | 34 | 15 | 7  | 14 | 40 | 14 | 12         | 13 | 46 |
| 28         |  | 16                      | 18 | 15 | 49 | 15 | 21 | 14 | 53 | 14 | 25         | 13 | 58 |
| 29         |  | 16                      | 33 | 16 | 3  | 15 | 35 | 15 | 6  | 14 | 38         | 14 | 10 |
| 30         |  | 16                      | 47 | 16 | 17 | 15 | 48 | 15 | 19 | 14 | 50         | 14 | 22 |
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| 8 27       | 23 |
| 8 40       | 22 |
| 8 53       | 21 |
| 9 5        | 20 |
| 9 18       | 19 |
| 9 30       | 18 |
| 9 43       | 17 |
| 9 55       | 16 |
| 10 7       | 15 |
| 10 19      | 14 |
| 10 31      | 13 |
| 10 43      | 12 |
| 10 55      | 11 |
| 11 7       | 10 |
| 11 19      | 9  |
| 11 30      | 8  |
| 11 42      | 7  |
| 11 53      | 6  |
| 12 5       | 5  |
| 12 16      | 4  |
| 12 27      | 3  |
| 12 38      | 2  |
| 12 49      | 1  |
| 12 59      | 10 |

| Arg. verum | Numerus Mysticus.      |       |       |       |       |       |       |       |       |    | Arg. verum |
|------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|----|------------|
|            | 24                     | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    |    |            |
|            | Aequatio Orbis addenda |       |       |       |       |       |       |       |       |    |            |
|            | P                      | P     | P     | P     | P     | P     | P     | P     | P     |    |            |
| 2          | 16 47                  | 16 17 | 15 48 | 15 19 | 14 50 | 14 22 | 13 54 | 13 26 | 12 59 | 30 |            |
| 1          | 17 2                   | 16 31 | 16 2  | 15 32 | 15 3  | 14 34 | 14 6  | 13 37 | 13 10 | 29 |            |
| 2          | 17 16                  | 16 45 | 16 15 | 15 45 | 15 15 | 14 46 | 14 17 | 13 48 | 13 20 | 28 |            |
| 3          | 17 30                  | 16 58 | 16 28 | 15 58 | 15 27 | 14 58 | 14 28 | 13 59 | 13 30 | 27 |            |
| 4          | 17 44                  | 17 12 | 16 41 | 16 10 | 15 39 | 15 9  | 14 39 | 14 9  | 13 40 | 26 |            |
| 5          | 17 58                  | 17 25 | 16 54 | 16 22 | 15 51 | 15 20 | 14 50 | 14 20 | 13 50 | 25 |            |
| 6          | 18 12                  | 17 39 | 17 6  | 16 34 | 16 2  | 15 31 | 15 1  | 14 30 | 14 0  | 24 |            |
| 7          | 18 26                  | 17 52 | 17 19 | 16 46 | 16 14 | 15 43 | 15 12 | 14 40 | 14 10 | 23 |            |
| 8          | 18 39                  | 18 5  | 17 31 | 16 58 | 16 26 | 15 54 | 15 22 | 14 50 | 14 20 | 22 |            |
| 9          | 18 53                  | 18 18 | 17 44 | 17 10 | 16 37 | 16 5  | 15 32 | 15 0  | 14 29 | 21 |            |
| 10         | 19 6                   | 18 31 | 17 56 | 17 22 | 16 48 | 16 15 | 15 42 | 15 10 | 14 39 | 20 |            |
| 11         | 19 19                  | 18 43 | 18 8  | 17 33 | 16 59 | 16 26 | 15 52 | 15 19 | 14 48 | 19 |            |
| 12         | 19 32                  | 18 56 | 18 20 | 17 45 | 17 10 | 16 36 | 16 2  | 15 29 | 14 57 | 18 |            |
| 13         | 19 45                  | 19 8  | 18 32 | 17 56 | 17 21 | 16 46 | 16 11 | 15 38 | 15 6  | 17 |            |
| 14         | 19 57                  | 19 20 | 18 43 | 18 7  | 17 31 | 16 56 | 16 21 | 15 47 | 15 14 | 16 |            |
| 15         | 20 10                  | 19 32 | 18 54 | 18 18 | 17 41 | 17 6  | 16 30 | 15 56 | 15 23 | 15 |            |
| 16         | 20 22                  | 19 43 | 19 5  | 18 28 | 17 51 | 17 15 | 16 40 | 16 5  | 15 31 | 14 |            |
| 17         | 20 34                  | 19 55 | 19 16 | 18 39 | 18 1  | 17 25 | 16 49 | 16 14 | 15 39 | 13 |            |
| 18         | 20 46                  | 20 6  | 19 27 | 18 49 | 18 11 | 17 34 | 16 58 | 16 22 | 15 47 | 12 |            |
| 19         | 20 58                  | 20 18 | 19 38 | 18 59 | 18 20 | 17 43 | 17 7  | 16 30 | 15 55 | 11 |            |
| 20         | 21 10                  | 20 29 | 19 49 | 19 9  | 18 30 | 17 52 | 17 15 | 16 38 | 16 2  | 10 |            |
| 21         | 21 21                  | 20 40 | 19 59 | 19 19 | 18 39 | 18 1  | 17 23 | 16 46 | 16 9  | 9  |            |
| 22         | 21 32                  | 20 50 | 20 9  | 19 28 | 18 48 | 18 9  | 17 31 | 16 53 | 16 16 | 8  |            |
| 23         | 21 43                  | 21 0  | 20 19 | 19 37 | 18 57 | 18 17 | 17 39 | 17 0  | 16 23 | 7  |            |
| 24         | 21 53                  | 21 10 | 20 28 | 19 46 | 19 5  | 18 25 | 17 46 | 17 7  | 16 29 | 6  |            |
| 25         | 22 4                   | 21 20 | 20 37 | 19 55 | 19 13 | 18 33 | 17 53 | 17 14 | 16 36 | 5  |            |
| 26         | 22 14                  | 21 29 | 20 46 | 20 3  | 19 21 | 18 40 | 18 0  | 17 21 | 16 42 | 4  |            |
| 27         | 22 24                  | 21 39 | 20 55 | 20 12 | 19 29 | 18 48 | 18 7  | 17 27 | 16 48 | 3  |            |
| 28         | 22 34                  | 21 48 | 21 4  | 20 20 | 19 37 | 18 55 | 18 14 | 17 33 | 16 54 | 2  |            |
| 29         | 22 43                  | 21 57 | 21 12 | 20 28 | 19 44 | 19 2  | 18 20 | 17 39 | 17 0  | 1  |            |
| 30         | 22 52                  | 22 5  | 21 20 | 20 35 | 19 51 | 19 8  | 18 26 | 17 45 | 17 5  | 9  |            |
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| 24                      | 25    | 26    | 27    | 28    | 29    | 30    | 31    | 32    |       |    |            |
| Aequatio Orbis addenda. |       |       |       |       |       |       |       |       |       |    |            |
| P                       | I     | P     | I     | P     | I     | P     | I     | P     | I     | P  | I          |
| 3                       | 22 52 | 22 5  | 21 20 | 20 35 | 19 51 | 19 8  | 18 26 | 17 45 | 17 5  | 30 |            |
| 1                       | 23 1  | 22 14 | 21 28 | 20 42 | 19 58 | 19 15 | 18 32 | 17 51 | 17 10 | 29 |            |
| 2                       | 23 10 | 22 22 | 21 35 | 20 49 | 20 4  | 19 21 | 18 38 | 17 56 | 17 15 | 28 |            |
| 3                       | 23 18 | 22 30 | 21 42 | 20 56 | 20 11 | 19 27 | 18 43 | 18 1  | 17 20 | 27 |            |
| 4                       | 23 26 | 22 37 | 21 49 | 21 2  | 20 17 | 19 32 | 18 48 | 18 5  | 17 24 | 26 |            |
| 5                       | 23 34 | 22 44 | 21 56 | 21 9  | 20 23 | 19 37 | 18 53 | 18 10 | 17 28 | 25 |            |
| 6                       | 23 41 | 22 51 | 22 2  | 21 15 | 20 28 | 19 42 | 18 57 | 18 14 | 17 31 | 24 |            |
| 7                       | 23 49 | 22 58 | 22 8  | 21 21 | 20 33 | 19 47 | 19 1  | 18 18 | 17 35 | 23 |            |
| 8                       | 23 56 | 23 4  | 22 14 | 21 26 | 20 38 | 19 51 | 19 6  | 18 21 | 17 38 | 22 |            |
| 9                       | 24 2  | 23 10 | 22 20 | 21 31 | 20 43 | 19 55 | 19 9  | 18 24 | 17 41 | 21 |            |
| 10                      | 24 8  | 23 16 | 22 25 | 21 35 | 20 47 | 19 59 | 19 13 | 18 27 | 17 44 | 20 |            |
| 11                      | 24 14 | 23 22 | 22 30 | 21 39 | 20 51 | 20 2  | 19 16 | 18 30 | 17 46 | 19 |            |
| 12                      | 24 20 | 23 27 | 22 34 | 21 43 | 20 54 | 20 5  | 19 18 | 18 32 | 17 48 | 18 |            |
| 13                      | 24 25 | 23 31 | 22 38 | 21 47 | 20 57 | 20 8  | 19 20 | 18 34 | 17 50 | 17 |            |
| 14                      | 24 30 | 23 35 | 22 42 | 21 50 | 21 0  | 20 11 | 19 22 | 18 36 | 17 51 | 16 |            |
| 15                      | 24 35 | 23 39 | 22 46 | 21 53 | 21 3  | 20 13 | 19 24 | 18 38 | 17 52 | 15 |            |
| 16                      | 24 39 | 23 43 | 22 49 | 21 56 | 21 5  | 20 15 | 19 26 | 18 39 | 17 53 | 14 |            |
| 17                      | 24 43 | 23 46 | 22 52 | 21 58 | 21 7  | 20 16 | 19 27 | 18 40 | 17 54 | 13 |            |
| 18                      | 24 46 | 23 49 | 22 54 | 22 0  | 21 8  | 20 17 | 19 28 | 18 40 | 17 54 | 12 |            |
| 19                      | 24 49 | 23 51 | 22 56 | 22 2  | 21 9  | 20 18 | 19 28 | 18 40 | 17 54 | 11 |            |
| 20                      | 24 51 | 23 53 | 22 57 | 22 3  | 21 10 | 20 18 | 19 28 | 18 40 | 17 53 | 10 |            |
| 21                      | 24 53 | 23 55 | 22 58 | 22 4  | 21 10 | 20 18 | 19 28 | 18 39 | 17 52 | 9  |            |
| 22                      | 24 55 | 23 56 | 22 59 | 22 4  | 21 10 | 20 18 | 19 27 | 18 38 | 17 51 | 8  |            |
| 23                      | 24 56 | 23 57 | 22 59 | 22 4  | 21 9  | 20 17 | 19 26 | 18 37 | 17 49 | 7  |            |
| 24                      | 24 56 | 23 57 | 22 59 | 22 3  | 21 8  | 20 16 | 19 24 | 18 35 | 17 47 | 6  |            |
| 25                      | 24 56 | 23 57 | 22 58 | 22 2  | 21 7  | 20 14 | 19 22 | 18 33 | 17 45 | 5  |            |
| 26                      | 24 56 | 23 56 | 22 57 | 22 0  | 21 5  | 20 12 | 19 20 | 18 30 | 17 42 | 4  |            |
| 27                      | 24 55 | 23 55 | 22 55 | 21 58 | 21 3  | 20 9  | 19 17 | 18 27 | 17 39 | 3  |            |
| 28                      | 24 54 | 23 53 | 22 53 | 21 55 | 21 0  | 20 6  | 19 14 | 18 24 | 17 35 | 2  |            |
| 29                      | 24 52 | 23 51 | 22 51 | 21 52 | 20 57 | 20 3  | 19 10 | 18 20 | 17 31 | 1  |            |
| 30                      | 24 50 | 23 48 | 22 48 | 21 49 | 20 53 | 19 59 | 19 6  | 18 16 | 17 27 | 0  |            |
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| 17 38      | 22 |
| 17 41      | 21 |
| 17 44      | 20 |
| 17 46      | 19 |
| 17 48      | 18 |
| 17 50      | 17 |
| 17 51      | 16 |
| 17 52      | 15 |
| 17 53      | 14 |
| 17 54      | 13 |
| 17 54      | 12 |
| 17 54      | 11 |
| 17 53      | 10 |
| 17 52      | 9  |
| 17 51      | 8  |
| 17 49      | 7  |
| 17 47      | 6  |
| 17 45      | 5  |
| 17 42      | 4  |
| 17 39      | 3  |
| 17 35      | 2  |
| 17 31      | 1  |
| 17 27      | 0  |

| Arg. verum |  | Numerus Mysticus.      |    |    |    |    |    |    |    |    |    | Arg. verum |    |    |    |    |    |    |    |    |
|------------|--|------------------------|----|----|----|----|----|----|----|----|----|------------|----|----|----|----|----|----|----|----|
|            |  | 24                     | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |    |            |    |    |    |    |    |    |    |    |
|            |  | Aequatio Orbis addenda |    |    |    |    |    |    |    |    |    |            |    |    |    |    |    |    |    |    |
|            |  | P                      | /  | P  | /  | P  | /  | P  | /  | P  | /  | P          | /  | P  | /  |    |    |    |    |    |
| 4          |  | 24                     | 50 | 23 | 48 | 22 | 48 | 21 | 49 | 20 | 53 | 19         | 59 | 19 | 6  | 18 | 16 | 17 | 27 | 30 |
| 1          |  | 24                     | 47 | 23 | 45 | 21 | 44 | 21 | 45 | 20 | 48 | 19         | 54 | 19 | 1  | 18 | 11 | 17 | 22 | 29 |
| 2          |  | 24                     | 43 | 23 | 41 | 22 | 40 | 21 | 41 | 20 | 44 | 19         | 50 | 18 | 57 | 18 | 6  | 17 | 17 | 28 |
| 3          |  | 24                     | 39 | 23 | 36 | 22 | 35 | 21 | 36 | 20 | 39 | 19         | 44 | 18 | 52 | 18 | 1  | 17 | 12 | 27 |
| 4          |  | 24                     | 35 | 23 | 31 | 22 | 30 | 21 | 31 | 20 | 33 | 19         | 38 | 18 | 46 | 17 | 55 | 17 | 6  | 26 |
| 5          |  | 24                     | 30 | 23 | 26 | 22 | 24 | 21 | 25 | 20 | 27 | 19         | 32 | 18 | 39 | 17 | 48 | 17 | 0  | 25 |
| 6          |  | 24                     | 24 | 23 | 20 | 22 | 18 | 21 | 18 | 20 | 20 | 19         | 25 | 18 | 32 | 17 | 41 | 16 | 53 | 24 |
| 7          |  | 24                     | 17 | 23 | 13 | 22 | 11 | 21 | 11 | 20 | 13 | 19         | 18 | 18 | 24 | 17 | 34 | 16 | 46 | 23 |
| 8          |  | 24                     | 10 | 23 | 5  | 22 | 3  | 21 | 3  | 20 | 5  | 19         | 10 | 18 | 17 | 17 | 26 | 16 | 38 | 22 |
| 9          |  | 24                     | 2  | 22 | 57 | 21 | 55 | 20 | 55 | 19 | 57 | 19         | 2  | 18 | 9  | 17 | 18 | 16 | 30 | 21 |
| 10         |  | 23                     | 54 | 22 | 49 | 21 | 46 | 20 | 46 | 19 | 48 | 18         | 53 | 18 | 0  | 17 | 9  | 16 | 21 | 20 |
| 11         |  | 23                     | 45 | 22 | 40 | 21 | 37 | 20 | 37 | 19 | 39 | 18         | 44 | 17 | 51 | 17 | 0  | 16 | 12 | 19 |
| 12         |  | 23                     | 35 | 22 | 30 | 21 | 27 | 20 | 27 | 19 | 29 | 18         | 34 | 17 | 41 | 16 | 50 | 16 | 3  | 18 |
| 13         |  | 23                     | 24 | 22 | 19 | 21 | 16 | 20 | 16 | 19 | 18 | 18         | 23 | 17 | 30 | 16 | 40 | 15 | 53 | 17 |
| 14         |  | 23                     | 13 | 22 | 8  | 21 | 5  | 20 | 5  | 19 | 7  | 18         | 12 | 17 | 20 | 16 | 30 | 15 | 42 | 16 |
| 15         |  | 23                     | 1  | 21 | 56 | 20 | 53 | 19 | 53 | 18 | 55 | 18         | 0  | 17 | 8  | 16 | 19 | 15 | 31 | 15 |
| 16         |  | 22                     | 49 | 21 | 43 | 20 | 40 | 19 | 40 | 18 | 43 | 17         | 48 | 16 | 56 | 16 | 7  | 15 | 20 | 14 |
| 17         |  | 22                     | 35 | 21 | 29 | 20 | 26 | 19 | 26 | 18 | 30 | 17         | 36 | 16 | 44 | 15 | 55 | 15 | 8  | 13 |
| 18         |  | 22                     | 21 | 21 | 15 | 20 | 12 | 19 | 13 | 18 | 17 | 17         | 22 | 16 | 31 | 15 | 42 | 14 | 56 | 12 |
| 19         |  | 22                     | 6  | 21 | 0  | 19 | 57 | 18 | 58 | 18 | 2  | 17         | 9  | 16 | 17 | 15 | 29 | 14 | 43 | 11 |
| 20         |  | 21                     | 49 | 20 | 44 | 19 | 42 | 18 | 43 | 17 | 47 | 16         | 54 | 16 | 3  | 15 | 15 | 14 | 29 | 10 |
| 21         |  | 21                     | 33 | 20 | 27 | 19 | 26 | 18 | 27 | 17 | 31 | 16         | 39 | 15 | 48 | 15 | 1  | 14 | 15 | 9  |
| 22         |  | 21                     | 15 | 20 | 10 | 19 | 9  | 18 | 11 | 17 | 15 | 16         | 23 | 15 | 33 | 14 | 46 | 14 | 1  | 8  |
| 23         |  | 20                     | 56 | 19 | 52 | 18 | 51 | 17 | 54 | 16 | 58 | 16         | 6  | 15 | 17 | 14 | 31 | 13 | 46 | 7  |
| 24         |  | 20                     | 37 | 19 | 33 | 18 | 33 | 17 | 36 | 16 | 41 | 15         | 50 | 15 | 1  | 14 | 15 | 13 | 31 | 6  |
| 25         |  | 20                     | 17 | 19 | 13 | 18 | 13 | 17 | 16 | 16 | 23 | 15         | 32 | 14 | 44 | 13 | 59 | 13 | 15 | 5  |
| 26         |  | 19                     | 56 | 18 | 53 | 17 | 54 | 16 | 57 | 16 | 4  | 15         | 14 | 14 | 27 | 13 | 42 | 12 | 59 | 4  |
| 27         |  | 19                     | 34 | 18 | 32 | 17 | 33 | 16 | 37 | 15 | 44 | 14         | 55 | 14 | 9  | 13 | 24 | 12 | 42 | 3  |
| 28         |  | 19                     | 11 | 18 | 10 | 17 | 11 | 16 | 16 | 15 | 25 | 14         | 36 | 13 | 50 | 13 | 6  | 12 | 25 | 2  |
| 29         |  | 18                     | 47 | 17 | 47 | 16 | 49 | 15 | 55 | 15 | 4  | 14         | 16 | 13 | 30 | 12 | 48 | 12 | 7  | 1  |
| 30         |  | 18                     | 23 | 17 | 23 | 16 | 26 | 15 | 33 | 14 | 43 | 13         | 56 | 13 | 11 | 12 | 29 | 11 | 49 | 7  |
|            |  | Subtrahenda            |    |    |    |    |    |    |    |    |    |            |    |    |    |    |    |    |    |    |

| Arg. verum  | Numerus Mysticus.       |    |    |    |    |    |    |    |    |    | Arg. verum |
|-------------|-------------------------|----|----|----|----|----|----|----|----|----|------------|
|             | 24                      | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |    |            |
|             | Aequatio Orbis addenda. |    |    |    |    |    |    |    |    |    |            |
|             | P                       | I  | P  | I  | P  | I  | P  | I  | P  | I  |            |
| 5           | 18                      | 23 | 17 | 23 | 16 | 26 | 15 | 33 | 14 | 43 | 30         |
| 1           | 17                      | 57 | 16 | 58 | 16 | 2  | 15 | 10 | 14 | 20 | 29         |
| 2           | 17                      | 30 | 16 | 32 | 15 | 38 | 14 | 47 | 13 | 58 | 28         |
| 3           | 17                      | 3  | 16 | 6  | 15 | 12 | 14 | 23 | 13 | 35 | 27         |
| 4           | 16                      | 35 | 15 | 39 | 14 | 46 | 13 | 57 | 12 | 28 | 26         |
| 5           | 16                      | 6  | 15 | 10 | 14 | 19 | 13 | 32 | 12 | 47 | 25         |
| 6           | 15                      | 36 | 14 | 42 | 13 | 52 | 12 | 22 | 11 | 41 | 24         |
| 7           | 15                      | 5  | 14 | 12 | 13 | 23 | 12 | 38 | 11 | 56 | 23         |
| 8           | 14                      | 33 | 13 | 42 | 12 | 55 | 11 | 11 | 10 | 30 | 22         |
| 9           | 14                      | 0  | 13 | 10 | 12 | 25 | 11 | 42 | 10 | 26 | 21         |
| 10          | 13                      | 26 | 12 | 39 | 11 | 55 | 10 | 14 | 9  | 35 | 20         |
| 11          | 12                      | 52 | 12 | 6  | 11 | 24 | 10 | 44 | 9  | 7  | 19         |
| 12          | 12                      | 17 | 11 | 33 | 10 | 52 | 10 | 14 | 9  | 39 | 18         |
| 13          | 11                      | 41 | 10 | 58 | 10 | 19 | 9  | 43 | 8  | 10 | 17         |
| 14          | 11                      | 4  | 10 | 24 | 9  | 46 | 9  | 12 | 8  | 40 | 16         |
| 15          | 10                      | 27 | 9  | 48 | 8  | 12 | 8  | 40 | 7  | 10 | 15         |
| 16          | 9                       | 48 | 9  | 12 | 8  | 39 | 8  | 8  | 7  | 39 | 14         |
| 17          | 9                       | 9  | 8  | 35 | 8  | 4  | 7  | 35 | 6  | 44 | 13         |
| 18          | 8                       | 29 | 7  | 58 | 7  | 29 | 7  | 2  | 6  | 37 | 12         |
| 19          | 7                       | 48 | 7  | 20 | 6  | 53 | 6  | 28 | 5  | 44 | 11         |
| 20          | 7                       | 8  | 6  | 42 | 6  | 17 | 5  | 54 | 5  | 33 | 10         |
| 21          | 6                       | 27 | 6  | 3  | 5  | 40 | 5  | 19 | 5  | 1  | 9          |
| 22          | 5                       | 45 | 5  | 24 | 5  | 4  | 4  | 45 | 4  | 28 | 8          |
| 23          | 5                       | 3  | 4  | 44 | 4  | 26 | 4  | 10 | 3  | 55 | 7          |
| 24          | 4                       | 21 | 4  | 4  | 3  | 49 | 3  | 35 | 3  | 10 | 6          |
| 25          | 3                       | 37 | 3  | 23 | 3  | 11 | 3  | 0  | 2  | 48 | 5          |
| 26          | 2                       | 54 | 2  | 43 | 2  | 33 | 2  | 24 | 2  | 15 | 4          |
| 27          | 2                       | 10 | 2  | 12 | 1  | 55 | 1  | 48 | 1  | 41 | 3          |
| 28          | 1                       | 27 | 1  | 22 | 1  | 17 | 1  | 12 | 1  | 8  | 2          |
| 29          | 0                       | 43 | 0  | 41 | 0  | 39 | 0  | 36 | 0  | 34 | 1          |
| 30          | 0                       | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 6          |
| Subtrahenda |                         |    |    |    |    |    |    |    |    |    |            |



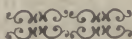
| Arg. verum |    |    |
|------------|----|----|
|            | 32 |    |
| P          |    |    |
| 11         | 49 | 30 |
| 11         | 31 | 29 |
| 11         | 12 | 28 |
| 10         | 53 | 27 |
| 10         | 33 | 26 |
| 10         | 12 | 25 |
| 9          | 51 | 24 |
| 9          | 30 | 23 |
| 9          | 9  | 22 |
| 8          | 47 | 21 |
| 8          | 24 | 20 |
| 8          | 2  | 19 |
| 7          | 39 | 18 |
| 7          | 15 | 17 |
| 6          | 51 | 16 |
| 6          | 27 | 15 |
| 6          | 3  | 14 |
| 5          | 38 | 13 |
| 5          | 13 | 12 |
| 4          | 48 | 11 |
| 4          | 22 | 10 |
| 3          | 57 | 9  |
| 3          | 31 | 8  |
| 3          | 5  | 7  |
| 2          | 39 | 6  |
| 2          | 13 | 5  |
| 1          | 46 | 4  |
| 1          | 20 | 3  |
| 0          | 53 | 2  |
| 0          | 27 | 1  |
| 0          | 0  | 6  |







CLARISSIMO,  
ET EXCELL. VIRO  
D. IOAN. ANTONIO MAGINO  
Mathematicarum in almo Bononiensi  
Gymnasio Professori.



I mutua hominum notitia penderet à solo congressu, & intuitu vultus: longiori forsan exordio mihi opus esset, pluribusque ambagibus, quibus in tuam ignoti familiaritatem ego, Germanus homo, qui nūquam Italiam vidi, peruenire contenderem. Te mihi literæ, cælestes artes, famaue celebris, ita notum reddiderunt; vt summa præditum humanitate erga externos merito credam; eaque fretus fiducia tuas ædes, non ante denunciatione facta, da veniam, recta iniussus ingredior, per literas tecum, præstantissime Magine, de communibus studijs collocuturus. Mathematicas disciplinas, procerum Styriæ stipendijs adiutus, inde à nonagesimo quarto anno auide colui. Quinto, & nonagesimo libellum edidi, cui titulus est, *Mysterium Cosmographicum*. Si tibi exemplar Paduam transmissum est, id ita, vt volui, factum est. Cum per literas Phœnicem nostrum Tychonem Brahe compellasset, vt suum ille super eo libello iudicium proderet: ad respondendum inueni promptissimum, aded, vt me ad sese, suaque studia visenda inuitaret. Hæsit eo tempore in Cimbria; paulo post, vt in Bohemiam venit, iter suscepi, vidi, probaui, admiratus sum, concupiui, hæsi denique: & iussu Cæsaris, quod Tychoni credo promotori, familiam eò transtuli. Cur ita facerem, mouit me potissimum; quod, quam iam diu meditor, Harmonicem mundi, perficere, nisi restaurata per Tychonem Astronomia, aut comparatis eius observationibus non possum. Quid hoc mali dicam esse

Q. in arte

in arte nostra, quæ omnis iustitiæ, fideique norma est, & origo: quod in eam fraudes irruerunt; quibus decepti retinentur viri summi, quo minus, ut par erat, quicquid proficere, in commune conferant, in publicum edant, petentibus communicent. Premit Tycho pleraque: Planetarum Theorias restauratas, Eccentricitates, proportionales orbium, ad examinanda mea Harmonica quæsiui: Solis ille, fixarumque Canones, quæque in Luna, & quod potissimum expetiui, in Marte iam olim perfecit, ea in quâ profert cum correctiora sit editurus. Observationes quidem lectissimas porrigit, non tamen aliter quam intra suos parietes. Labora, inquit, tu quoque: credo quod Copernicanæ hypotheseos defensores, alius ipse sententiæ, spectare constituit. Ego Tychonis observationibus positus, iam annum integrum Copernici hypotheseos examino in Marte præcipuè. Interim tu ad Tychonem scripsisti non semel, literas tuas partim legi, partim audiui recenseri. Admiranda tu quoque commemoras; simulque premere illa, & ipse profiteris. O rem indignam: adeo perdita esse tempora, ut viris doctis quoque in metu sit versandum; Quamvis tu quidem non obscuram spem feceris; communicaturum te tua cum illo, qui sua vicissim tecum communicet. Id ego postquam ex literis tuis intellexi, mirificè in tui amorem exarsi; idque tanto magis, quânto illa, quæ in secreto habere dixisti, meos labores, Astronomiæ fortè non inutiles, adiutura sunt. Ac etsi quidem ea, quæ à Tychone habeo, vicissim tecum communicare non possum, nisi ipso consentiente; fidem namque super hac re illi dedi: spero tamen te fore mihi æquum, si ex eorum, quæ proprio Marte adinueni, liberali communicatione candorem meum perspexeris; Non quod ijs te multum adiutum iri sperare possim: (sum enim meæ mihi tenuitatis conscius) sed ut animus, ut dixi, meum videas; Nam & hoc accedit, quod tantò rectius me iuuare poteris, ubi videris, quibus in rebus verser. Si de mea fide dubitas, habes hic chirographum meum, quo bona fide promitto, me quicquid huius mihi communicaueris in secreto habiturum, non pro meo venditaturum, nulli hominum, quisquis ille sit, communicaturum: sine dolo malo, sincerè, si secus faxim, vir inhonestus habear. Quæ autem ego deprehendere potui, hæc ferè sunt. In libello meo Cosmographico peculiare caput est, cum tabula à Meßlino computata, in qua hypotheseos Copernici sic censui corrigendas, ut Planetarum Eccentricitates, summæque Apfides ab ipso veri loci Solis centro deriuentur, non à medio loco Solis. Id certissimè ita habere deprehendi, Martis certissimis observationibus ad demonstrationum calculum reuocatis. Alio eius libri capite monui de Theoria Solis, quod ea non ut Planeta: ceteri, ab artificibus æquantem sit adepta, sed sola simplici constet Eccentricitate, idque in suspicionem traxi falsitatis. At ex Theoria Martis id luculentissimè probari potest, Solem (vel in Copernico Terram,) cum est in Apogæo, non ita altè ascendere uti maxima eius æquatio per suppositionem simpli-

cis



cis Eccentricitatis requirit, sed deficere partem eius circiter tertiam, per positionem æquantis saluandam. Aequationes tamen, vbi maximè differunt, in Anomalia gr. 135. scrupulo vno, cum sexta parte differunt, nihil ultra.

Eodem in capite moneo de peculiari inæqualitate reuolutionum Veneris, & Mercurij, quod Copernicus ait contra Eccentrorum reuolui in paruo circello, fierique centrum Eccentrici Veneris, cum in Apogæo, vel Perigæo est, centro orbis annui propius, cum in locis intermedijs est, remotius, & Eccentricitatem maiorem contra Mercurij in Apogæo, & opposito loco Eccentricitatem esse maiorem, in quadrantibus minorem. Has inquam nouas inæqualitates non obscurè in dubium vocau. Id autem quale sit, & vnde hæc inæqualitates inferioribus inesse videantur, hoc ipso tempore deprehendo, quo Praga absum in Styria, hæreditatis causa: nisi quod libris destitutus numeros applicare nequeo. Tu verò si schema feceris ad imitationem Copernici, & Apogæa Solis, Veneris, & Mercurij ordinaueris, simulque duos pro Terra circulos duxeris, alterum pro via terræ hæcenus credita, alterum ex Soli propiore centro pro via Terræ verissima, cui prior ille loco æquantis Ptolemæici inseruiat. (Nam vniuersalem Theoriarum, siue circulorum Planetariorum ordinationem facio ad imitationem Copernici circa Solem immobilem, particulariter verò Theorias singulas more Ptolemæico, cum æquipollean hypothefes, administro, solo Epicyclo excepto, qui tollitur à mobilitate Terræ,) hæc inquam si ita disposueris, facile tibi apparebit, has existimatas inæqualitates inferiorum, nihil aliud esse quàm parallaxim ex motu, vel accessu & recessu Terræ ad orbem Veneris, hæcenus non satis cognito resultantem. Nam quia Apogæa Solis, & Veneris coniuncta ferè sunt, ideoque Terra à Sole longissimè remota, cum putetur tam longè remota, quantum postulat æquatio Solis maxima in Eccentricitate simplici; sit vero in rei veritate propior Soli, propior etiam erit orbi Veneris, Soli circumposito: itaque Veneris orbis centrum ad terram accessisse, & in opposito Terræ situ, ab ea recessisse putabitur. Ita quod inest globo Terræ (vel Soli, qui Veneris orbem gestat, secundum Tychonem) id orbi Veneris inesse putatur. Contrarium accidit in Mercurio. Nam eius Apogæum Perigæo Solis propius est quam Apogæo. Parco verbis; cum vel hæcenus verborum nimium coram sagacissimo homine fecerim. Cum igitur hoc ita habeat circa inferiores, in magna dubitatione sum, an verum sit de Mercurio, quod geminum Perigæum habeat circa trientes. Si schema quale dixi, feceris, apparebit demonstratio, qua Mercurius in primo triente ab Apogæo maiorem digressionem facere deprehenditur, quam in Perigæo, in altero vero triente minorem. Fortè in illo altero non sit conspicuus, aut non extant forsan in Ptolemæo alterius trientis obseruationes. Quæ omnia facile perquires: ego iam libris careo. Memini tamen Ptolemæum in Mercurio ex

Q 2 duabus



duabus obseruationibus longè distantium annorum vnã anni intermedij effinxisse, qua commodè videretur. Itaque mihi parum à Ptolemæo metuo in hoc negotio. Adde quod magnum aliquid infert inclinatio plani Mercurialis ad planum Eclipticæ, quam in forma hypothesium Copernici inueni maiorem Lunari, scilicet graduum 7. 45'. circiter, quamuis latitudo visa nunquam tanta fiat. Itaque si gradus 45. à nodo in alterum trientem ab Apogæo incidit, sedecim minutis alteratur punctum Eclipticæ respondens, à puncto orbis Mercurialis, lineis ex Sole eductis, quæ differentia aliquid inferre, & illam *parallaxin*, de gemino stellæ Perigæo causis alijs concurrentibus adiuuare potest. Simile his est, & procul dubio ex eadem causa manans, quod Ptolemæus, eiusque hic imitator in alia hypothesi Copernicus, inclinationes planorum in Planetis libratione aliqua, quæ sit reuolutioni Solis analogos, instabiles reddunt. Id mihi semper alienum à natura visum; etsi quidem latitudinum in meo libello non feci mentionem: at deprehendi in Marte inclinationem plani constantissimam, quoties in eundem locum Eccentrici recurrit, quorsumcunque Terra recesserit. Idem in Venere & Mercurio circa nodos eorum exploratum habeo.

Hæc si, Magine solertissime, fueris vnico mentis intuitu complexus: mecum equidem statues, omnium septem Theoriarum, quod motus siderum reales attinet, formam esse planè eandem, eamque simplicissimam; quilibet enim in vna reuolutione constantissimum exactissimumque circulum decurrit, tardius supra, velocius infra, hoc est, prope Solem, idque non per *parallaxin*, sed re vera. Nam Tycho etiam in Luna æquantem adhibuit. Ex quâ concinnitate, & simplicitatè, hoc est, perfectione moruum celestium, quantum Copernico roboris accedat, faciliè perspicis. Nam etsi Tycho Copernicum quam proximè imitatur, & repræsentat, retenta Terra in medio immobili: illud tamen cauere non potest, quin vias, per quas Planetæ in liquidissimo æthere (quod ipsi facile credo) girantur, in spiras inæqualiter, semperque aliter contorqueat.

At non idèo facilius fiet calculus. Imò quanto capiti planior hæc Astronomiæ forma, tantò computatu laboriosior, inuentu intricatior.

Quod ad inuentionem attinet, periculū in Marte feci. Vnde demonstrationum initium facerem, non habui. Erant omnia incerta. Quod si quis fortunam periclitari, & præsupponere aliqua ceu certa velit, eaque suppositione identidem variata, quasi per regulam falsi, paulatim ad veras dimensiones contendere, illi in tanto numero querendorum non faciliè apparet, qua in parte lateat error; processus verò singuli ab initio suppositio- nis vsque ad finem penè infinitæ longitudinis. Itaque diuino me beneficio Magine præstantissime afficeris, si me doceres via faciliore inquirere compolitas Eccentrici æquationes. Rem quidem cōperduxi, vt mihi non plus duabus multiplicationibus opus sit. At dum nimia cupiditate feror

in in-



in inquisitionem verissimarum proportionum, tabulas æquationum nullas condo, quibus in operando subleuer: cum non ita magnus sanè labor sit, trecentas sexaginta multiplicationes pro 180. gradibus perficere. Labor, inquam, non ita magnus, si semel susciperetur. At toties nouam condere tabulam; quoties assumpta symmetria fallà deprehenditur, id verò permolestū, & præstabilius tuo mystico numero vti ad eas solas æquationes eliciendas, quibus pro renata opus est.

Cum itaque diu laborassem, variaque demonstrationum adminicula effinxissem: tandem in hæc duo problemata incidi, quæ ad rem maximè facere puto: quorum alterum plus certitudinis, alterum plus ingenij habere videtur.

Detur angulus motus medij Planetæ, itemque Solis circa puncta æquæ: tum ad temporis quod libet spatium determinatum. Detur & locus Solis verus ad momentum quodlibet cum quo datur & Apogæum, & Eccentricitatis compositæ ad orbem proportio.

Nesciatur verò longitudo simplex Planetæ. (Nam & circa hanc corrigendam artifices occupantur) nesciatur locus Apogæi (potius ἀπογῆς) Planetæ, nesciatur proportio orbium Terræ (seu Solis) & Planetæ, nesciatur proportio eccentricitatis Planetæ ad orbem suum, nesciatur proportio partium huius Eccentricitatis, nesciatur etiam in Theoria Solis (vel Terræ) proportio partium Eccentricitatis compositæ. Dentur iam tres Planetæ ἀπορῶντες observationes, & singulis binæ aliæ observationes adiungantur sic comparatæ, vt Planeta post integras reuolutiones (quæ inter data sunt) semper sit iterum in eodem loco sui Eccētri, linea ex centro Soliseducta. Ex nouem sic comparatis obseruationibus Planetæ, datisque cæteris, sint inquirenda omnia quæ nesciri dixi. Primo in qualibet obseruationum tria scitur locus sub fixis, causa longitudinis, in quem cadit linea ex centro corporis Solaris per Planetæ corpuseducta. Nam in vera oppositione cum Sole locus ille patet oculis in binis verò socijs beneficio periodi cognita scimus Planetam eodem esse reuersum, vbi fuit in ἀπορῶντες situ. Cum ergo sint tres tria, ter ergo scitur locus Planetæ subfixis.

Deinde cum Planeta, & Terra nō faciant vllam vnquam omnimodam ἀπομάκρυνσιν, sit vt Planeta ter eodem in loco sui Eccentrici versante, Terra contra tria distincta loca possideat. Itaque cum detur locus Solis, seu Terræ oppositus ad omnes tres vices, dantur etiam anguli commutationis veri, & tales, quales ex angulis commutationis simplicis per vtriusque & Planetæ, & Terræ æquationes corrigentes extrueremus, si iam habere-mus tabulas. Tertio ex his habebitur per solutionem vnius trianguli (Sol, Terra, Planeta) distantia Solis, & Terræ, eaque bis. Nam terra inter verum Solis, & Planetæ locum versante, nulla sit longitudinis parallaxis, seu commutatio. Itaque per aliud huic implexum problema, cum sciatur locus Apogæi terræ, scribitur etiam angulus Anomalix, ad vtramque distantiam

stantiam Solis, & Terræ. Ex duorum itaque locorum à suscepto puncto distantijs, & vtriusque à loco Apogæi remotione, inquiritur quantitas orbis terreni, seu magni in ea mensura, in qua præsupposuimus cognitam esse Planetæ à Sole distantiam vno loco Eccétrici sui; inquiritur indidem etiam distantia suscepti puncti (quod est centrum viæ Terræ) à centro Solis. Hoc vti fit in vna triga obseruationum, ita fit etiam in altera, & tertia. Sed in altera Planeta est alio loco sui Eccentri, in tertia est tertio loco sui Eccentri, habetque inæquales à Sole distâncias, quas semper initio demonstrationis ponimus esse 100000. Est itaque necesse, vt quantitas orbis terræ alia atque alia prodeat (proportione tamen Eccentricitatis viæ terræ ad semidiametrum semper eadem prodeunte, quæ admodum certa probatio erit.) At cum certum sit, manere radium orbis terræ circa centrum viæ terræ, in eadē quantitate, suscipiemus iam hunc in quantitate 100000. & proportionaliter constituemus Planetæ in tribus locis distantias. Ita tres Planetæ inæquales à Sole distantias habebimus. Quemadmodum ergo facillima ratione Geometres ex tribus punctis circulum describit, ita Arithmeticus laboriosa via per octo (nescio an sedecim) operationes simplices, ex tribus radijs inæqualis longitudinis, ab vno puncto exeuntibus rimatur quantitatem semidiametri viæ Planetariæ in proportionem quælium est semidiameter orbis terræ 100000. simul & distantiam centri à puncto illo vno (quod est centrum Solis) rimatur, & inclinationem lineæ per vtrumque centrum traiectæ, ad radios dictos. Habita Eccentricitate viæ Terræ & Planetæ simplici, Eccentricitas composita, seu equantis in terra ante nota est, in Planeta inquiritur ex angulis motus simplicis ad spacia temporum intermedia, cum iam inuenta Eccentricitate viæ comparatio. Quemadmodum & cognito loco Apogæi (seu Aphelij) Planetæ, cognoscitur & longitudo simplex eiusdem correcta ad quodlibet tēpus.

Alterum problema difficillimè sine schemate explicatur, ego vero iam & instrumentis careo. Versatur in latitudinibus *ἀπορυχταίς*.

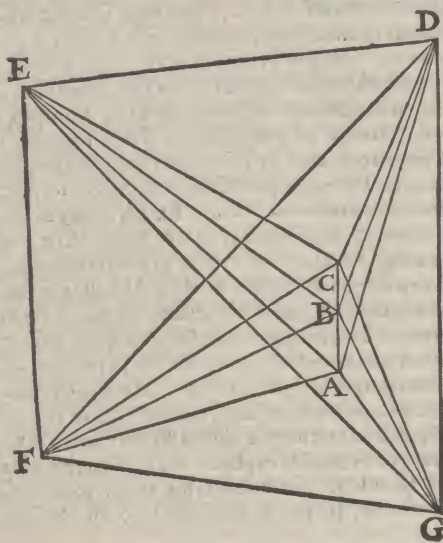
Præcognita hæc sunt. Primo tres latitudines Planetæ accuratè obseruatæ, cum est in vera oppositione cum Sole. Cum quibus innotescunt etiam loca longitudinis angulique, interiecti. Deinde opus est, vt sciamus loca nodorum, ea vero simplici obseruatione patefunt. Nam cum Planeta est in Ecliptica, nulla parallaxis (nisi ea, quam habet communem cum luminaribus) illum alibi facit apparere, quàm in Ecliptica. Quorsum verò cadat linea ex Sole per Planetam eiecta, ex mediocriter & inartificiali æquationum & Aphelij præcognitione mediocriter etiam præsciri potest. Tertio opus nobis est scientia inclinationis maximæ planorum, quam sic inuestigamus. Cum abest Planeta æqualiter à terra & à Sole, eadem est inclinatio eius, & latitudo visa. At circa exortus vespertinos & occultationes matutinas, potius circa quadraturas, cum angulus veræ commutationis Planetæ æquatur angulo vel distantia circulari Solis & Planetæ, sunt



sunt etiam æquales rectilinear distantia dicta. Tunc ergo Planetæ latitudo obseruetur & constituatur ex medio cxi præcognitione Theoricæ Planetæ, quo loco impingat linea ex Sole per Planetam iens, factaque comparatione visæ latitudinis (quæ est etiam vera inclinatio) ad distantiam à Nodo in triangulo Sphærico inquiratur inclinatio maxima limitum. Tunc ergo scibitur inclinatio Planetæ ad quemcunque situm ἀπορύχτων, videtur verò latitudo; Comparetur ergo visæ latitudo cum calculata inclinatione, & fingatur interea Planeta æqualissimè circa Solem ire, fiet hoc pacto, ut prodeant tres distantia terræ à Sole. Ex his tribus eliciatur quantitas orbis, Aphelium, & Eccentricitas viæ ut supra. Erit hoc pacto Eccentricitas Planetæ cum Eccentricitate terræ in communem eccentricitatem confusa. Et vtriusque Aphelium in idem Aphelium commune loco intermedio confusum. Et mirabile dictu, in hac maioris circuli Eccentricitatis in minoris Eccentricitatem infusione, quod prodit, circulus manet. Demonstrationem nescio quomodo fiat, ut animo videam, verbis eloqui nondum potuerim. Cogita ipse. Mechanicè quoque certam fidem feci. Ex hac confusione iam, adminiculante cognitione Apogæi Solis, extricanda est vtriusque sideris Eccentricitas viæ, quod totum negotium problematis aliquot explicui, sed iam chartis meis destitutor. Pulcherima est speculatio: sed latitudinum anguli parui, error obseruationis valde sensibilis, itaque probationis loco est non inquisitionis.

Quæ autem dixi de mediocri præcognitione Theoriæ Planetæ, sic intelligantur, quod sicut in Theoria Solis (vel Terræ) ita propemodum in omnibus Planetis, æquationes Eccentri sciri possunt (solas namque has peto, ut præcognoscantur) etsi verissima proportio partium Eccentricitatis ignoretur. Nam error ex vitiosa proportionē hac prodiens in Sole quidem non est maior 1'. 10". Cum est maximus in anom.grad. 135. Et hic quidem error tantus est, quando, quæ ex duabus partibus æqualibus composita est Eccentricitas, eam cum prioribus Astronomis, ut simplicem imaginamur. At si compositam & nos faciamus ex partibus genuinis, faciamus item ex partibus non genuinis æquationes vtriusque extructæ multò adhuc minus differunt: dummodo summa partium eadem vtriusque maneat: Aded quidem ut in Marte, cuius est æquatio maxima, si à 92. vsque in 120. varietur Eccentricitas viæ (in ea dimensione, ut est radius 1000.) æquationes non turbentur plus tribus minutis. Verum ut & hoc addam, ipsas æquationes Eccentri sine præcognitione longitudinis mediæ, in hunc modum inuestigo, problemate, quod necessitatem infert, & tamen neque per Geometricas demonstrationes, neque per latius patentem coſsam explicari à me hæcenus potuit. Laboravi tanquam per regulam falsi, idque in incertitudine non simplici sed quadrata. An & hic me demonstratione problematis iuuare possis.

Sint



Sint quatuor loca Planetae observata in sitibus *ἀπορροχίσις* veris cum vero loco Solis, quæ sint D. E. F. G. & sit A. centrum corporis solaris. B. centrum circuli illius in cuius circumferentia consistunt quatuor illa puncta D. E. F. G. C. sit centrum æquantis. Ad quatuor ergo tempora sciuntur anguli circa C. inter bina & bina tempora explorata quantitate motus medij, quod fieri potest, etsi ignoretur præcisißima longitudo media ad momētū quodlibet. Sciuntur autem & anguli circa A Solem

ex ipsis observationibus. Assumatur verò A C. linea in numero ad operandum facili, ut si sit 10000. Nescitur iam proportio A C, ad A B, B C, nescitur proportio A C vel A B. B C, ad A D, A E, A F, A G, vel ad B D, B E, vel ad C D, C E. Nescitur proportio A D, B E, vel C D, B E, tantummodo scitur, quod B D, B E, B F, B G, sint æquales. Pono itaque primo tanquam in regula falsi, inclinationem A C ad C D, C E, C F, C G, esse mihi notam; pono iterum eiusdem C A inclinationem ad A D, A E, A F, A G, mihi esse notam: ita illic ponitur longitudo media, hic Aphelium, tanquam cognita. Ex his positis, dantur in triangulis A D C, A E C, A F C, A G C, anguli cum latere A C, dantur ergo A D, A E, A F, A G. & cum sciuntur G A D, D A E, E A F, F A G. in his ergo triangulis ex binis lateribus & angulo comprehenso, dantur G D, D E, E F, F G. cum angulis A D G, A D E, A E D, A E F, A F E, A F G, A G F, A G D. Item in F A D, datur F A, A D, & comprehensus F A D, (componitur namque ex F A E, E A D) quare & F D datur, cum angulis A F D, A D F. Colligo summam E A F, A F G, sic & E A D, D A G. ut sciam quantitatem angulorum oppositorum E F G, E D G, qui si faciant summam 180. graduum, certum est puncta D, E, F, G, per assumptas duas positiones manere in circulo. Sin excedit vel deficit



deficit summa oppositorum semicirculum, reditur ad caput, ut in regula falsi, & retenta positione prima inclinationis  $A C$  ad  $C D$ ,  $C E$ ,  $C F$ ,  $C G$  variatur positio inclinationis  $C A$ , ad  $A D$ ,  $A E$ ,  $A F$ ,  $A G$ . Tunc ex excessu vel defectu viroque peruenitur ad cognitionem eius Aphelii, vel inclinationis  $C A$  ad  $A D R$ , quæ quatuor puncta in circulo cogit. Quo facto iam etiam probandum est, an & prima positio longitudinis mediæ rectè habeat, in hunc modum. Cum sciatur  $A D G$ , &  $A D F$ , sciatur &  $F D G$ . cumque sint iam quatuor puncta in circulo, erit  $F B G$ . duplus ad  $F D G$ . Iam ergo datur Isosceles  $F B G$  cognita basi & angulis, facile ergo cognoscitur  $\tau\omicron\sigma\kappa\lambda\omicron\varsigma$   $F B$ , vel  $B G$ . Prius autem sciebatur  $A F G$ , iam sciatur  $B F G$ . sciatur ergo &  $B F A$ . In hoc ergo triangulo, cum antea sciatur  $A F$ , iam  $F B$  cum comprehenso, sciatur &  $B A$  Eccentricitas viæ &  $B A F$  inclinatio  $B A$  ad  $A F$ , quæ si eadem est, quæ  $C A$  ad  $A F$ , erunt ergo  $B A$  &  $C A$  coincidentes, & prima longitudinis mediæ positio rectè habet. Sin discrepant, tota operatio à prima origine, quanta quanta est, repeti debet, variata etiam prima positione, & ad illam per processum Falsi, certificata secunda: postea per eundem Falsi processum comparata utraque primæ positionis variatione, ad eliciendam veram positionem. Summa itaque hæc est, quando  $D. E. F. G.$  sunt in circulo, rectè habet Aphelium. Quando vero  $B$  centrum eius circuli est in linea  $A C$  loco intermedio, rectè habet & longitudo media. Cum autem iam habeatur proportio linearum ad  $A C$ , quam suscepimus esse 10000. facile eam in alios numeros transponemus, ut  $B F$  sit 100000. Quod si ergo quatuor observationes in parte scrupuli rectè haberent, essemus vel sic certi de propositione  $F D$  ad  $B A$ , nec opus esset tanto apparatu, quantum supra descripsi. Sed quia intra tria scrupula certi non sumus de observatione, præsertim quando deductione opus est à die proximo, quando serenitas observationes admittit, ad diem veræ cum Sole oppositionis; idè in incerto relinquimur, ut supra dictum, in Marte quidem à 9200. in 12000. & ulterius: quæ incertitudo in parallaxibus orbis annui intolerabilis est. Aequationes tamen hac viâ prope verum addiscimus.

Hactenus exposui, quibus in rebus à te, Magine sollertissime adiuuari possint inuentiones hæc, circa Theorias Planetarum Copernicanas. Nunc alterum caput de difficultate calculi aggrediar, consilium tuum expetiturus, quomodo censeas constituendas tabulas, quam formam calculi amplectendam. Copernicus uti potuit Anomalia commutationis, quia centrum, circa quod numeratur Anomalia, putauit esse centrum viæ terræ. Quid iam nobis proderit Canon Anomaliæ commutationis, cum bis æquanda sit, nempe per totiusque Aequationis & Planetæ, & Terræ partem eam, quæ constituitur ab Eccentricitate viæ. Oportet enim angulum Anomaliæ ad nullum aliud punctum stare, quam ad centrum

R Solis.

quor loca Pla-  
seruata in si-  
monixiois veris  
o loco Solis,  
D.E.F.G. &  
trum corpo-  
B. centrum  
lius in cuius  
rentia confi-  
atuor illa pun-  
F.G. C. sic  
æquantis. Ad  
ergo tempo-  
ar anguli cir-  
er bina & bi-  
ora explorata  
te motus me-  
d fieri potest,  
oretur præci-  
ongitudo me-  
omētū quod-  
iuntur autem  
i circa A So-  
in numero ad  
A C, ad A B,  
A F, A G, vel  
R vel C D R.  
Pono itaque  
E, C F, C G,  
ad A D, A E,  
ia, hic Aphe-  
gulis A D C,  
go A D, A E,  
G, in his ergo  
r G D, D E,  
F E, A F G,  
comprehensus  
c F D datur,  
A F G, sic &  
orum E F G,  
puncta D, E,  
in excedit vel  
deficit

Solis. Nulla hic æquipollentia hypothesium hos iuuat. Dimidio gradu in Marte erramus, primum atque centrum Solis deseruerimus. At si stet angulus hic ad Solem, semper est alia atque alia distantia Solis & Terræ quare etiam alia, atque alia parallaxis annua, etiam si Planeta habeat vnam & eandem Anomaliam Eccentri. Nam Aphelia in tabulis perpetuis oportet considerare, vt distantiam mutuam variantia successu sæculorum. Ac etsi semper eadem maneat Apheliorum distantia, tamen parallaxes erunt condendæ non ad quadrantem, non ad semicirculum, sed ad integrum circulum: vbi si accedant etiam scrupula proportionalia, vt necesse esset, nescio an cuitaturi simus omnem errorem. His omnibus accedit implexio mutua parallaxon annui orbis in longum & latum, qui scrupulus me diutissime torfit, cæca molestia. Nam cum propè oppositiones Planetæ cum Sole venit, hæc implexio non parui est momenti: semperque me impediuit, quo minus iustam siderum à Sole distantiam inuestigare potuerim. Hic si etiam Canone vti velimus, æquandi propter latitudinem, angulum commutationis, nescio an difficilior & tardiosior sit futurus calculus tabularum, quàm calculus triangulorum. In hac ergo difficultate de forma calculi ea cogito, quæ est naturæ conformis; quam quia, sine tua ope vix potero adipisci, itidem exponam. Colligetur ex tabulis Planetæ simplex longitudo, & Aphelium, & subtracto hoc ab illa, per Anomaliam Eccentri relictam excerpetur æquatio Eccentri, qua corrigetur longitudo, vt fiat Eccentri longitudo æquata, excerpetur & distantia Planetæ à Sole per eandem simplicem Anomaliam, seruanda in futurum vsum. Hic labor erit in inferioribus planè idem. Nam Eccentrus eorum is dicitur circulus, quem in rei veritate describunt circa Solem. Quod si carerent Planetæ parallaxi annua iam iuuenta essent omnium Planetarum, ipsiusque Terræ loca in suis orbitis. Ergo pro quinque Planetarum parallaxibus annui orbis iam secundo ad eundem modum quæretur & locus Terræ (vel Solis oppositus) cum distantia Solis & Terræ seruanda. Tertio locus orbitæ Planetæ comparabitur cum proximo Planetæ nodo (nodi motu simplici etiam ex tabulis collecto) & per distantiam à nodo & maximam limitis inclinationem, quæretur ex parte Canonis rectanguli sphericæ, cuius latus à grad. 0. ad 90. gradus per singulos gradus, frons a grad. 0. min. 0. ad grad. 10. min. 0. per singula minuta procedit excerpetur inquam ex hoc Canone, per distantiam modo, seu basim rectanguli sphericæ, & per angulum inclinationis maximæ in area quærendum iuxta basim, in latere sinistro arcus Eclipticæ respondens arcui orbitæ, in fronte inclinatio eius loci quem obtinet Planeta.

Latus

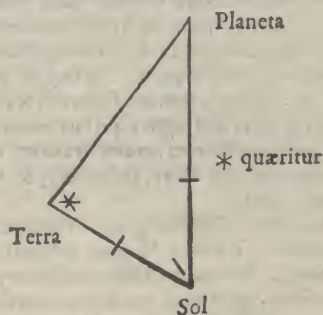


Latus minus à grad. 0. 0'. vsque  
ad grad. 10. 0'.

Latus minus à gr. 0. vsque ad gr. 90.

Basis, & angulus lateri minori  
oppositus.

Quarto locus Eclipticæ inuentus comparabitur cum loco opposito So-  
lis vero. Differentia erit angulus Anomalix commutationis, qui quàm-  
uis re ipsa per vtramque æquationem sit correctus, simplex tamen adhuc  
nobis dicitur, cum etiam num æquandus sit, maximè circa oppositiones  
cum Sole. Hic angulus simplex quæretur in latere Canonis rectanguli  
sphærici, inclinatio vero loci Planetæ in Eccentrico quæretur in fronte,  
& per hæc duo excerpetur sub titulo Baseos in area angulus commuta-  
tionis æquatus; sub titulo verò anguli oppositi minori lateri, excerpetur  
angulus vsque ad finem calculi seruandus.



Quinto tabulis nullis iuuari poterimus, quin per vtramque & Plane-  
tæ & Terræ à Sole distantiam, & angulum Anomalix commutationis  
R 2 æquatum

Latus

æquatum inter dicta duo latera comprehensum per duas multiplicationes quæramus angulum commutationis seu parallaxeos compositæ seu confusæ. Sexto hæc parallaxis & prius servatus angulus in area Canonis rectanguli iuxta se mutuo quæsitæ ostendent in latere arcum elongationis Planetæ in Ecliptica à Solis loco opposito, in fronte verò latitudinem Planetæ. Hic speciales cautiunculas non addo, quæ ex descriptis schematibus sunt faciles animadversu. Hoc tamen moneo, praxim hanc omnibus quandoque fore communem, dummodo sic habeat Theoria Mercurij, vti supra sum suspicatus. Hic qua in re rem iuuare possis exponam. Cum non sit cuiuslibet condere tabulas, propter ingens laboris ædium, & molem studiorum, tu vero excellas, & abundes compendijs vti qui maximè; Canonis huius partem Planetis necessariam tibi condendam relinquo; nam ita quidem persuasus sum, quicquid D. Tycho sit editurus fore, vti hæc Copernicana hypothesis, propter intellectationis facilitatem iuxta mansura sit, quam quidem in tabulas redigere, dum vixero, non desistam: tu verò iam pridem obtulisti tuam D. Tycho operam, in condendis tabulis. Ac sanè si ex restitutione Lunari, quam apud Tychonem vidi, de Planetis cæteris iudicandum est, non nullius usus erit etiam apud Tychonem hæc pars Canonis. Nam quas habet Luna inæqualitates extra coniunctiones & oppositiones, omnes Tycho à vera coniunctione & oppositione regulares facit. Vt iam non dicam de ingenti usu Canonis rectanguli sphericæ in omni doctrina triangulorum sphericorum: si frons reliqua à grad. 10. per gradus singulos ad 90. continetur. Puto autem à grad. 0. ad 10. grad. per scrupula singula eundem, etsi magnus sanè labor est futurus, ne gemina seu cruciformi proportionalis partis indagatione opus habeamus. Sufficit autem scrupulorum ad grad. 10. extensio, quia nulla neque inclinatio neque latitudo hanc quantitatem excedit. Forma libri consideranda est, quænam sit vsui accommodatissima. Placeret longa, quæ omnes nonaginta versus in longitudine caperet, in latitudine vero quinque columnas areales. Ita singuli gradus frontales senis folijs expedirentur, essetque summa foliorum sexaginta, possentque pinnacidijs seu ansulis folia distingui, quibus nouus in fronte gradus oreretur. Qui iam eundem laborem nouies sumeret, condito libro foliorum 540. is in solidum eijceret sinus, tangentes, & secantes è doctrina sphericorum triangulorum.

Prolixus admodum fui. Cessabo igitur. Vbi hæc tibi grata fuisse intellexero, plura mouebo. Tu verò Magine celeberrime hæc eo animo suscipe, quo ego scripsi. Sum artis Astronomicæ cupidissimus, & temperare mihi non possum, quin cum artificibus consilia mea communitem, vti illorum admonitionibus subinde in hac diuina arte proficiam. Peto maiorem in modum, vti quàm primum rescribas. Nec est necesse, vt ex abrupto ad singula respondeas: Saltem indicationem facito, vbi  
has



has receperis. In Styria quidem non cogito ultra tres ad summum hebdomadas manere. Itaque præstiterit, ut quæ responsurus es, Pragæ Bohemorum mitteres, ad Illustrissimum Dominum Coraducium, Vicecancellarium Imperij, quem & has artes amare scio, & me amare persuasus sum. Si tamen aliqua te incommoditas impedit (quamquam ecce, quid te impedit ad D. Tychonem scribere, cuius literis, si quid ad me pertinens adiunxeris, id me semper, uti spero, apud D. Tychonem reperiet) si tamen aliqua te incommoditas Pragæ scribere prohibet, mitte Græcium in Styriam ad Nuncium Apostolicum, is si Abbati Admontensi commendauerit epistolas, facile mihi reddentur.

Dum concludere volo, incidit, quod penè primo loco scribere volui. Theoria Lunæ multum Tychoni difficultatis mouet. Mihi videtur auspicanda à parallaxibus, quæ contingunt ob sensibilem distantiam centri & superficiei globi terreni. At parallaxium doctrina latitudinibus Lunæ confusa est. Opus igitur esset præcognitione latitudinum. Vtrumque ab utroque pender. Cogitani igitur quomodo parallaxis sine cognitione latitudinis obseruando inuestigari posset. Modi duo inciderunt. Alter si eodem die Luna semel alta, semel humilior extra tamen terminum refractionum obseruaretur, quando est circa limites, ubi intra duas horas parum mutatur latitudo. Expediit autem id etiam in principio Cancræ fieri, ubi parum etiam mutatur declinatio. Verum, quando Luna eodem die post meridianam altitudinem fit sensibiliter humilior, acquirit parallaxim in longitudinem, præcognoscendam, cum ea inquiratur. Alter modus, ut distinctis temporibus obseruaretur Luna, cum est in gradu nonagesimo, in limite eodem, in eadem remotione à Sole, semel altior semel humilior. At hæc tres conditiones rarè concurrunt. Adde quod singulis scrupulis in hac altitudinis obseruatione committitur error vnus semidiametri terræ, quarum in Eccentricitate viæ Lunæ pauca continentur. Itaque tertio huc confugio, ut te orem, obserues Lunam quoties potes in nonagesimo gradu, & obseruationes, vna cum exactissima Bononiensis Poli altitudine, nobiscum in Germania communices. Curabo ego, ut nostras obseruationes tu vicissim habeas. Ita fiet, ut Luna interdum simul utroque in loco obseruetur, sicque eius in varijs Anomalix locis altitudines innotescant. Nam Bohemia, & Italia bona pars in eodem Meridiano sunt. Vale præstantissime vir, meque tibi commendatum habe.

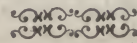
Græcij Styriæ Kalendis Iunij anno Christi 1601.

Excell. T.

Officiosissimus

Io. Keplerus Mathematicus.

CLARISSIMO,  
ET EXCELL. VIRO  
DOMINO IOAN. KEPLERO  
Mathematico Cæsareo.



*Doctissime, ac Præstantissime Vir.*



Id nuper insigne tuum opus de motu Martis à quodam Librario nostro Bononienti huc pro nobili viro Venetia allatum, & mutuo quidem mihi ad vnicam diem concessum percurri breuiter quantum per angustiam temporis mihi concessum fuit. Inter cætera offendi caput 31. positum pag. 164. in quo proponis per bisectionem Eccentricitatis Solis non turbari sensibilibus æquationes Solis à Tychone expositas, quod sanè cum auide percurissem inuenissemque tuam rationem à Ptolemæi, & Tychonis fundamentis tam in simplici Solis Eccentricitate, quam in duplicata valde differre, neque vilo pacto conuenire posse cum tabula ad simplicem Solis Eccentricitatem à Tychone in progymnasmatum tomo allata, neque cum mea, quam recentem secundum hypothesim æquantis supputaui ad Eccentricitatem par. 1792. Cognoui tandem te malè angulum Anomalix Solis ad mundi centrum accepisse, cum verius ad Eccentrici centrum in simplici Solis Theoria, vel ad æquantis centrum in bisecata Eccentricitate sit accipiendum, vt ex hac adiecta supputatione clarius veritatem percipies. Sed mirum minimè est, homines tam eximia eruditione præstantes & grauissimis ac difficillimis speculationibus districtos, interdum à vero tramite deſſere. Ignosceas igitur & in bonam partem hæc accipias quæſo, & qua decet animi beneuolentia; quia veri & sinceri amici munus gero. Haud illibenter enim fateor, quod etiam mihi soleat idem interdum accidere, quia enim homines sumus, facile errare possumus. Me enim & tibi & tuis amicis quandiù spiritus meos reget artus ex asse verum & sincerum esse perpetuo futurum & mansurum planè ac planè confidas. Sed quamprimum ipsum opus tuum mihi allatum fuerit (expecto enim illud auide ab amico) à capite ad calcem totum summa cum diligentia & assiduitate percurram. Cosmographicum mysterium D. V. longo temporis



poris spatio interiecto à me summa cum diligentia quæsitum nunquam  
consequi potui, nisi paucis ab hinc mensibus idque à nobili Germano,  
qui ad nos Bononiam venit, eundemque librum secum attulit, pro quo  
munere illi primum Mobile meum gratitudinis ergo obtuli. Et quia in  
itinere duo priora folia cum titulo & dedicatione corrosa sunt, rogo  
V. D. ut eadem ad me mittat simul cum tabulis magnis, quæ in eodem  
desiderantur (nulla enim alia extat quam tertia tabula orbium Planeta-  
rum dimensionem & distantias exhibens) hoc enim erit mihi quam gra-  
tissimum pro quo certè meæ officia promptissima & paratissima prolixè  
quouis tempore defero ac polliceor. His benè & feliciter vale, & de  
Astronomia perficienda benè mereri ne desine.

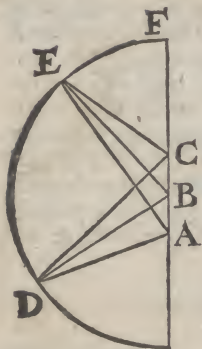
Bononiæ die 15. Ianuarij 1610.

Excellentiæ Tuae

Studiofissimus

Io. Antonius Maginus Patavinus.

O,  
ERO  
quodam  
ro Vene-  
am diem  
ngustiam  
ffendi ca-  
bisectione  
olis à Ty-  
que tuam  
olici Solis  
acto con-  
Tychone  
center se-  
ar. 1792.  
i centrum  
Theoria,  
ndum, ut  
irum mi-  
iffimis ac  
e deflece-  
& qua de-  
o. Haud  
accidere,  
& tibi &  
& since-  
das. Sed  
o enim il-  
gentia &  
ngo tem-  
poris



Primus modus computandi æquationes Solis erroneus est, dum ex integra Eccentricitate 3600. quā in linea AF intelligis esse AC colligere vis angulum æquationis ad Anomaliam grad. 45. & 135. grad. nam deciperis in assumptione Anomalie grad. 45. penes angulum FAE, qui cum sit ad centrum mundi ignotus est, & est reuera angulus FCE Anomalie, quem respicit arcus FE, & sic quoque deciperis in angulo Anomalie FAE grad. 135. nam angulus Anomalie grad. 135. est FCD, ad quem refertur circumferentia FD. Quare cum in triangulo obliquangulo AEC tu præsupponis angulum CAE notum cum latere CE, qui est ad instar sinus totius, & cum latere AC 3600. bene quidem colligis angulum AEC grad. 1. 27'. 31".

procedit enim Analogia illa, ut sinus totus CE ad anguli CAE sinum, sic CA Eccentricitas ad sinum anguli CEA æquationis. Sed tali pacto neque Ptolemæus, neque Copernicus, aut Braheus computavit æquationes Solis, ut videre est apud Tychohem pag. 29. qui assumit triangulum ACE notorum laterum CE 100000. AC 3584. vel ut tu 3600. cum angulo ab ipsis comprehenso noto ACE, tamquam complemento ad semicirculum adjacentis anguli Anomalie FCE. Vnde adinuenitur angulus quæsitus AEC pro Anomalia grad. 45. sic

|             |        |
|-------------|--------|
| Latus EC    | 100000 |
| Latus AC    | 3600   |
| Aggregatum  | 103600 |
| Differentia | 96400  |

Anomalia gr. 45.  
Dimidium gr. 22. 30. Tangens 41421.

|  |   |
|--|---|
| Vt aggregatum laterum.                               | Ad eorundem differentiam                  |
| 103600.  | 96400.                                    |
| id est ut maxima Solis distantia à terra ad minimam, |   |
| Ira tangens dimidij anguli                           | Ad tangentem anguli differentie à dimidio |
| Anomalie   |   |
| 41421  | 38542                                     |

Tangenti 38542. debetur arcus grad. 21. 4'. 40". qui sublatus à dimidia Anomalia grad. 22. 30. relinquit quæsitum angulum æquationis AEC grad. 1. 25'. 20". qui tamen superat æquationem à Tychohe positam in 24. secundis: nam Tycho habet grad. 1. 24'. 56". Sed si accipiatur



# Ac Tab. Secundorum Mobilium. 237

piatur Eccentricitas, qua præcisè fuit vsus Tycho, nempe 3584. vt ipse facit pagina 30. colligitur eadem cum Tychone æquatio, vt hic patet.

|             |        |                                     |
|-------------|--------|-------------------------------------|
| Latus E C   | 100000 | Anomalia gr. 45.                    |
| Latus A C   | 3584   | Dimidium gr. 22. 30. Tangens 41421. |
| Aggregatum  | 103584 |                                     |
| Differentia | 96416  |                                     |

Vt aggregatum laterum  
103584.

Ita tangens  
41421

Ad differentiam eorundem  
96416.

Ad tangentem  
38556

Tangenti 38556. competit angulus grad. 21. 5'. 4". qui sublatus ab angulo grad. 22. 30'. relinquit æquationem iam dictam grad. 1. 24'. 56". vt habet Tycho.

Accedamus nunc ad secundum modum computandi æquationes, quo Ptol. est vsus in Planetis cæteris, qui habet locum in Theoria Solis, cui inest aquans circulus. Tu igitur retento priore angulo falso C A E, confugis primo ad triangulum B E A, in quo ex noto latere B E sinu toto, & latere A B 1800. eadem methodo, qua supra vsus fuisti, colligis angulum B E A grad. 0. 43'. 46". sed non est ille angulus C A E notus, cum vt diximus superius, notus sit angulus B C E in altero triangulo B C E tamquam complementum ad semicirculum Anomalie: bene tamen procedit methodus tua illa ad colligendum angulum B E C grad. 0. 43'. 46". assumpto triangulo B C E vice trianguli A B E. nam vt sinus totus B E ad sinum anguli A C E seu B C E 70711. ita B C 1800. ad sinum anguli B E C 1273. Vnde angulus ille est grad. 0. 43'. 46". sed si acceperimus Eccentricitatem 1792. erit angulus ille grad. 0. 43'. 34". postrema etiam pars calculi tui falsa est, dum ex duobus lateribus E B, B C cum angulo comprehenso quaris angulum B E C. Nam vice versa secundum rectum calculum venandus est angulus A E B tali methodo.

Quoniam in triangulo B C E dabatur angulus B C E grad. 135. & inuentus fuit angulus B E C grad. 0. 43'. 46". ex tua Eccentricitate 1800. vel grad. 0. 43'. 34". ex præcisore Eccentricitate 1792. habebitur tertius angulus E B C. grad. 44. 16'. 14". qui est externus trianguli A B E secundum tuam Eccentricitatem 1800. sed secundum præcisorem Eccentricitatem erit ille angulus grad. 44. 16'. 26". Iam igitur datis duobus lateribus A B, B E cum angulo comprehenso indagabitur angulus A E B secundum methodum, qua vsi fuimus in priore modo.

S Latus

Latus B E 100000 Angulus externus C B E grad. 44. 16'. 14".  
 Latus A B 1800 Dimidium est, grad. 22. 8. 7. cuius tangens 40677.

Aggregatum 101800  
 Differentia 98200

Vt aggregatum laterum  
 101800

Ad differentiam eorundem  
 98200

Ita tangens  
 40677

Ad tangentem  
 39238

Huic tangenti congruit angulus grad. 21. 25'. 27". qui sublatus à dimidio angulo grad. 22. 8'. 7". relinquit angulum A E B grad. 0. 42'. 40". qui si addatur angulo B E C, quem prius inuenimus grad. 0. 43'. 46". prodibit totus angulus æquationis A E C grad. 1. 26'. 26". differens à priore modo m. 1'. 6".

Sic quoq; expediendo calculum cum præciosiore Eccentricitate 1792. resultabit angulus ille grad. 1. 26'. 2". vt hic.

Latus B E 100000 Angulus externus C B E grad. 44. 16'. 26".  
 Latus A B 1792 Dimidium grad. 22. 8. 13. cuius tangens 40681.

Aggregatum 101792  
 Differentia 98208

Vt maxima distantia ☉ à terra, idest

Ad minimam idest

Vt aggregatum  
 101792

Ad differentiam  
 98208

Ita tangens  
 40681

Ad tangentem  
 39248

Tangenti 39248. congruit angulus grad. 21. 25'. 45". qui detractus à dimidio angulo grad. 22. 8'. 13". relinquit angulum grad. 0. 42'. 28". estque angulus A E B, sed prior angulus B E C fuit grad. 0. 43'. 34". Quare aggregatum amborum erit angulus A E C æquationis gr. 1. 26'. 2". sicut reposui in mea recenti tabula differtque ab angulo Tythonicæ Tabulæ m. 1. 6". Quare in Progymnasmatum Tythonis Appendice pag. 821. vbi calculi vtriusque differentia prodit 1'.  $\frac{1}{2}$  debet legi 1'. 6". & non vt tu ais 0'  $\frac{1}{2}$  nã verisimilius est, Tythonẽ scripsisse 6". & fuisse malè transcriptũ  $\frac{1}{2}$ .



*Clariss. & Excell. Viro D. Ioan. Antonio Magino  
Mathematico Bononiensis Gymnasij.*



LARISSIME, & præstantissime D. Magine, quas ad me dedisti Bononia die 15. Ianuarij accepi primo Feb. & respondes. Gratiam iniuisti non paruam, quod significasti, tibi meum opus de Marte curæ esse. Obsecro propter nostra studia, vt eadem lima totum percurras. In id enim est editum, vt sicubi erro, tui similitum censuris in hoc veluti fundamento subleuer, vt quam correctissimum superstruam Astronomiæ opificium: primum atque mihi à summis difficultatibus aulicæ vitæ affulserit tranquilla serenitas. Quod rem præsentem attinet, decepti te ambiguitas meæ dictionis; quam discutiet lectio totius libri. Atque hoc primo modo. Primus modus hic denominatur non à methodi forma, sed a forma Eccentricitatis, quæ hic assumitur simplex: Nam methodum adhibeo sanè aliam & compendiosiore pro hoc instituto (id facio passim in opere) Re ipsa conuenimus Tycho, & ego. Nam assume Anom. med. grad. 46. 27'. 31". inuenies coæquatam methodo Tychonis grad. 45. 0'. 0". Deinde quare Anom. med. grad. 45. 0'. 0". in tabula, qua Anomalia tu vteris in secundo meo modo, qui est bisectæ Eccentricitatis, vbi extruis æq. grad. 1. 26'. 2". inuenies ex tabula mea eundem. Ecce grad. 44. 42'. 59". dat gr. 43. 17'. 1". æq. gr. 1. 25'. 58".

45. 43. 45. dat gr. 44. 16. 15. æq. gr. 1. 27. 30. Proportionaliter igitur grad. 45. 0'. 0". dat grad. 1. 26'. 28". sed hoc in tabula mea, quæ habet modum tertium. Tu verò in modo secundo constitue Anomaliæ coæquatam grad. 45. 33'. 58". (substracta æquatione grad. 1. 26'. 2". à te inuenta) & vtire mea methodo, inuenies medium grad. 45. 0'. 0". quam & assumpisti. Appendicis ad Progymnasmata ipse author sum. Sed fieri potuit, vt in illius computo ego tunc fuero hallucinatus, ita computans, vt tu nunc; hoc est comparans æquationem, quam Mihi dat coæquata grad. 45. 0'. 0". cum æquatione, quam PTOLEMÆO dat, simplex, seu media Anomalia grad. 45. 0'. 0".

Par erat, vt Cæsar mihi mandaret, gratis donare exemplaria Mathematicis. At coactus sum vendere Typographo, sine exceptione. pro tribus tamen Florenis hic Pragæ habere possum vnum.

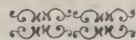
Mitto defectus Mysterij petitos, paratus totum mittere; sed quia habes reliqua; postea parcendum duxi. Vale vir celeberrime, & perge censendo mihi prodesse. Pragæ vt supra anno 1610.

T. Excell. Amicus

Io. Keplerus S. C. M. Mathematicus.

S 2

*Clariss. & Excellentiss. Viro D. Ioanni Keplero  
Mathematico Casareo.*



*Clarissime, & Excellentissime Vir.*



**V**Idetur ex tua responsione, te non temere sed studiosè, & tuo quodam consilio supputasse æquationes Solis initio facto ab angulo Anomalix veræ ignoto, non autem, ut fieri ordinariè consuevit, ab angulo Anomalix mediæ, quem tabulæ Astronomiæ promptè exhibent. Quam sanè tuam rationem quid commodi possit afferre, cum ex ipsa prodeant numeri introituales fractionibus molestis implicati ignoto. Sicut videre est etiam in tabula tua distantiarum Solis à Terra, quæ cum nec Anomaliam mediam, nec veram ad gradus integros, habeat, molesta est pro ingressibus. Non video autem, quomodo ex hac tuæ supputationis forma æquationes Solis ex bisecta Eccentricitate prodeant in iisdem numeris à te positis. Esto igitur, ut tu ais, Anomalia vera pences angulum  $EAB$  grad. 45. ex qua rectè colligis angulum  $BEA$  grad. 0. 43'. 46". hic additus ad  $EAB$  angulum Anomalix veræ constituit angulum  $ECB$  grad. 45. 43'. 38". Complementum huius ad semicirculum est grad. 134. 16'. 14". estque tantus angulus externus  $EBA$  trianguli  $ECB$ . huius dimidij grad. 67. 8'. 7". tangens est 237140.

Vt aggregatum laterum.

101800

Ad eorundem differentiam.

98200

Ita tangens dimidij anguli externi.

237140

Ad tangentem differentia.

228754

Tangenti huic congruit angulus grad. 66. 25'. 15". qui reiectus à dimidio angulo superiore grad. 67. 8'. 7". relinquit angulum æquationis grad. 0. 44'. 52". qui additus angulo  $BEA$  prius inuento 0. 43'. 46". manifestat integrum angulum  $CEA$  grad. 1. 28'. 38". & non ut tu ponis grad. 1. 27'. 24". Quare differt hic modo inuentus angulus ab illo secundum simplicem Eccentricitatem vno minuto & 7". Pariter quoque in Anomalia gr. 135. addatur angulus  $BDA$  grad. 0. 43'. 46". angulo Anomalix  $DAB$  grad. 135. prodit  $DBC$  grad. 135. 43'. 46". cuius complementum est gr. 44. 16'. 14". & dimidium 22. 8'. 7". cuius tangens 40677.

Vt



Keplero

|          |     |             |              |
|----------|-----|-------------|--------------|
| Virgitur | Ad  | Ita tangens | Ad tangentem |
| 1018     | 982 | 40677       | 39238        |

Cui tangenti competit angulus grad. 21. 25'. 27". qui sublatu à dimi-  
dio angulo 22. 8'. 7". relinquit 0. 42'. 40". pro angulo B D C. Quare to-  
tus C D A est grad. 1. 26'. 26". & non ut tu ponis, grad. 1. 27'. 28". Dif-  
fertque ab angulo simplicis Eccentricitatis m. 1'. 5". Ex tua tabula distan-  
tiarum Solis à terra colligitur cum Anomalia æquata grad. 45. æquatio  
Solis grad. 1. 28'. 38". & cum Anomalia grad. 135. æquatio Solis gr. 1.  
26'. 20". Ex his autem patet non esse æquales æquationis partes, nempe  
Optica & Physica, unde in constructione tabulæ ex duplicatione Prosta-  
phæresis non obtinebitur exactissima æquatio. Hæc libenter discutere  
volui Origanæ causâ, qui cum supputasset motum Solis in suis recentis-  
simis Ephemeridibus ex tabula Tychonica, redargui videtur errorculi  
ob æquationum varietatem, quæ provenit ex bisectione Eccentricitate, qui  
error in Luna etiam locum habet. Nollem vero, ipsum Origanum pro  
sui defensione confugere ad tuum caput; 1. Imo potius cuperem, te illud  
caput correcturum libenter quamvis lapsus sit exigui momenti. Sum &  
ego editurus Ephemerides luminarium ex Tychonico calculo per plures  
annos, & correxi quidem luminarium diametros ex Appendice ad Pro-  
gymnasmata, ut exactius Eclipses supputari possent, & non sicut fecit  
Origanus. Tabulæ motus Martis magnam afferent lucem lectioni huius  
præstantissimi operis de motu Martis, quas tentabo meo Marte collige-  
re, ut experiri valeam, an possit aliquod compendium vltro excogitari  
pro computatione moruum. Et si tu saltem mihi communicabis æqua-  
tiones centri & distantias ☿ à ☉ gratissimum mihi facies, neque vn-  
quam illas cuiquam communicaturus sum, quod sanctè tibi promitto.  
Gratias quas possum maximas pro folijs ad redintegrationem mysterij  
Cosmographici mihi à te missis tibi refero. Has manu propria ob aduer-  
sam valetudinem qua 15. plus diebus detineor exarare minime potui.  
Tu vir Excell. vale optime. Bonon. 23. Feb. stilo novo, anno 1610.

Excellentiæ Tux

Studiofissimus

Io. Antonius Maginus.

S 3 Clariss.

reclus à di-  
æquationis  
0. 43'. 46".  
ut tu ponis  
illo secun-  
quoque in  
gulo Ano-  
ius comple-  
ens 40677.  
Vt

Clariss. & Excell. Viro D. Ioan. Antonio Magino  
Mathematico Bononiensis Gymnasij.



**E**X morbo te conualuisse gaudeo. Vix tandem tua opera  
discussi hanc nebulam. Video iam causam nullam fuisse,  
cur meos numeros in Appendice Progym. fol. 821.  
insertos posterioribus curis in Martis fol. 164. corrigere.  
Mirum fatum, cum toties operationem repetierim,  
(quippe graue mihi videbatur erratum in Progym. fa-  
teri) adeo constanter me ratione aberrasse. Interdum igitur  
*τις αὐτῶν, καὶ ἀπὸ τοῦ*

In felicitatis parte est, quod ei parvus est error, & nihil illi superstru-  
tum, ita ut exemptus ex libro ruinam trahat nullam. Nam quod tu in-  
fers, Non esse aequales partes aequationis, Opticam & Physicam, id qui-  
dem verum est, neque dixeram planè aequales, quod verò addis, In con-  
structione tabulae ex duplicatione Prosthaphæresis non obtineri exactissi-  
mè aequationem; id tantum abest, ut verum dicas, ut potius per hanc  
tuam correctionem contrarium probes. Nonne enim tu ipse in his lite-  
ris ex mea tabula, ad coæquatam grad. 45. dicis, aequationem grad. 1.  
28'. 38"? Ad gr. 135. gr. 1. 26'. 26". At quid tua correctio? Nempe  
grad. 1. 28'. 38". & grad. 1. 26'. 26". Miraberis quæ hæc præstigia? Sed  
cogita, quod in duplicatione tabulari, partes aequationis connectantur  
ad gradus integros, Anomaliam non mediæ, non coæquatæ, sed Eccentri-  
ca An. Co. 45. tanto etiam minor sit pars Physica, quam sumitur per  
duplicationem Opticæ. Cogita an hæc mihi origo errandi, qui aliam for-  
tè methodum computando sum secutus, aliam postea in Commentarijs  
perscripsi, numeris ex illa mutuatis. Nam nunc non vacat quærere.

Ut erroculus hic propaleatur nihil reformido; tantum ut qui id factu-  
rus est, totum librum legat. Origanus enim aut quicumque alius, si  
abusurus est hoc meo sphalmate, non impune feret, si vixero. Nam ut  
nolo meis erroribus præiudicare veritati, ita ne alijs quidem concedam  
silentium tenens. In computandis Eclipsibus non solæ luminarium dia-  
metri, sed & alia multa corrigenda sunt, & à me correctæ sunt in Hippar-  
cho meo, licet nondum absoluto, ut edi possit.

Tabulas Martis habeo absolutissimas, est mihi & compendium com-  
putandi præsto; ut vnicus aliquis locus Martis, tam in longum quam in  
latum, multo breuiori methodo computetur, quam ex Prutenicis, multi  
verò simul facilima ratione computantur. Nisi tantum circa punctum  
oppositionis cum Sole, ibi correctiunculis est opus.

Sed



# Ac Tab. Secundorum Mobilium. 263

Sed & in Saturno & Ioue tabulae sunt perfectae, in Venere & Mercurio dimidium earum.

Cogito ante editionem Tabularum Rudolphi scribere Ephemerides, ad annos 80. initio ab anno 1583. facto propter observationes Tychoonis & meas Meteorologicas, quas addam.

Initium iam in Marte est factum. Si durare & ferre tedium possem, horis 6. vel 7. continuis, scribere possum vnius anni Ephemerida motuum Martis.

Hæc eo commemoro, ut te admoneam, tibi tuoque hypographo caueas à damno, quod videris incursum, si extantibus iam Origani Ephemeridibus, tum in super edas eadem, meis fortasse breui sequentibus.

Origani consilium nunquam probavi, & admonui illum diligenter ante multos annos, remitteret luminaria Tychonica Planetis Prutenicis. Et per se liber & Typus informes sunt; multi expectatione Ephemeridum perfectarum quas promitto, non emunt interim Origani, eo fit, ut vili precio putem vendendas magis atque magis. Nam & in Galliis aiunt eas recundi, ut exempla in Hispanias & Indias vehantur.

Peris tibi communicem tabulas Martis.

Ego quidem, mi Magine paratus sum, non illas tantum, sed & omnes reliquas communicare successivè: Si fieri posset, ut inter nos solida & fida & tuta societate magistratum auctoritate stabilita, Ephemerides communi nomine, meo tamen arbitrio ederemus, & sumptus ipsi in commune faceremus, exemplaribus ad hæredes transmissis; quorum illud vendibiles faceret libros propter vtriusque famam, hoc ad rem augendam faceret. At ut tibi de me securitatem præstare possim, nescio qui tu mihi de te tuisque hæredibus possis, nisi in Germaniam aduenias, ibique tempus aliquod teras. Operarum partitio hæc esset; ut quia ego decennio toto hæsi in eruendis fundamentis ex observationibus Brahæi. Tu igitur ex his tabulis motus tuo labore computares: quod facilius posses, quam quisquam alius. Tuum igitur est, tuas pensare conditiones, mihi que super his sententiam tuam aperire.

Vale 22. Martij 1610. Praga.

Excellentiæ Tuæ

Officiosissimus

Io. Keplerus S.C.M. Mathematicus.

Ad

Magino

7.

gnus in O

n tua opera

ullam fuis-

n. fol. 82 r.

corrigere.

epetierim,

gymn. fa-

utrisque ppor-

i Superstru-

quod tu in-

m, id qui-

lis, In con-

ti exactissi-

us per hanc

in his lite-

m grad. 1.

33 Nempè

ligia? Sed

innectantur

d Eccenuri.

quàm Opti-

umitur per

aliā for-

mentarijs

quarere.

qui id factu-

ue alius, si

o. Nam ut

concedam

narium dia-

in Hippar-

diū com-

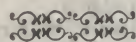
m quàm in

nics, multi

ca punctum

Sed

*Ad eundem Clarissimum Virum D. Io. Keplerum  
Cæsareum Mathematicum.*



*Clarissime, ac Præstantiss. Vir.*



X vltimis ad me 22. Martij datis ingenuitatem tuam de paruulo illo errorculo circa æquationes Solis, de quo nil vltius mihi dicendum relinquitur, animaduerti. Confidentiam autem tuam, quam re vera erga me geras cum ex alijs plurimis tum vel maxime exinde quia optas, vt conficiamus vnà nouas Ephemerides secundū Tychonicum calculum ad multos præteritos & futuros annos, satis abundè declarasti. Modum & rationem aliquam securam & certam, vtinam in hoc nostro proposito possimus inire, tam gratum quàm quod gratissimum foret: cum ob maximam vtilitatem, tum ob honorem ac famam perennem à studiosis Mathematicum. Horum prius seruiret nobis & nostratum posteris. Alterum confutaret Origanum & eius Ephemeridibus nobis viuus existentibus tenebras offunderet. Addo ego & meum infatigabile desiderium, quo calculus hic aliquando Iudiciariæ Astrologiæ summopere inseruiens prodeat. Conditiones à te mihi propositas rationis lance libraui. Ego ad vos Pragam vt veniam, & ibi temporis aliquid teram est impossibile. Quia valetudo mea est inconstans. Aliquando enim dolores arthetici pedes, manus, hypochondria laceffere solent. Ab hinc etiam duobus annis colica bis periculosissimè laboraui, si cura domestica non præcessisset, si Medicorum copia & consilia non subleuassent, interissem. Iter est longum. Via difficultatibus & periculis plena. Si quid mali occurreret, vnde solatium? vnde leuamen? vnde auxilium? In senio Italicum cælum cum Germanorum commutare, est periculosum. Non sum aduicatus hypocauftis calidis, non ceruicis, non cibo ac potu Germanorum superfluo. Præterea lectionem publicam cum proventu 500. aureorum & spe auctarij deferendam nec volo nec debeo, vt fileam priuata commoda & auxilia, quæ à principibus, & alijs nobilibus. Viris mihi sæpè suppeditantur. Nam vt reliqua taceam, cessantibus publicis, ad aulam Serenissimi Mantuæ Ducis vt plurimum me transfero, ex qua ad minimum 400. ducatos reportare soleo ob illorum Principum liberalitatem & benignitatem. Taceo sumptus maximos, quos iter & mora requireret. Tandem verò familia vxore, patre, filijs, & seruis onusta aditum Pragam certius præcludunt. Ad quid hoc meum iter? cum commodior securitas



securitas sese nobis offerat eaque talis . Tabulam cuiuslibet Planetæ separatim mitte ego vicissim eiusdem Planetæ calculum ad 60. annos tam præteritos quam futuros ad finem perductum tibi bona fide restituiam , quo tu successivè mihi tabulam alterius Planetæ communices ad illummet calculandum, donec ad umbilicum perductum sit negotium totum . In quo perficiendo celeritatem meam fortassis demiraberis . Neque descriptio Italiæ , in qua circiter 2. millia ducatorum hucusque impendi , ab hoc nostro proposito detinebit . Lubens editionem illius huic postponam . Puto autem ab anno 1583. vel potius 1581. vsque ad annum præsentem 1610. non opus esse descriptione aspectuum, sed sufficere, ut Planetarum tantum motus in longum & latum computentur . Atque ita quilibet annus possit 7. aut 8. cartis contineri . Quibus si adderes observationes & Tyconicas, & tuas, gratius studiosi acciperent . Ephemerides ab anno 1581. quo meæ Copernicæ incipiunt, vsque ad annum 1640. easque in duo volumina diuisas, ac editas, ut anni præteriti separatim & anno futuri ad libitum studiosorum haberi possint, libenter elaborarem . De hæredibus intricatum mihi videtur negotium : optarem ego, ut communi sumptu Ephemeridum integrum opus nullis annis retentis à principio imprimatur, & publicetur . Et omnia exemplaria inter nos æqualiter diuidantur . Quod si aut tu aut aliquis Librarius tuo consensu expensis proprijs totum opus suscipiet, certam exemplariorum impressorum summam pro meo labore libentius recipiam, ut ea per Italiam distribuam . Securitas, ne tuæ tabulæ aut hæ Ephemerides à me confectæ, te incito ac inuito in Italia aut alibi edantur hæc esto :

Hic chiographo meo proprio me obligabo bonis præsentibus & futuris, ut possis contra me, & mea bona, secus si faxim, agere, & in tali casu infamem vitam meam reddere . Totus enim apertè & candidè, ut aliàs semper feci sine fūco tecum procedam . Similiter quin facturus sis, nulloatenus dubito . De quattuor Galilæi nouis Planetis quid sentias iudicium audire expecto . Interim benè vale, & ad me quam primum responsum remitte . Bonon. 20. Aprilis 1610.

Excellentiæ Tuæ

Studiofissimus

Io. Antonius Maginus.

plerum

em tuam de  
lis, de quo  
imaduerti.  
erga me ge-  
xinde quia  
les secundū  
satis abun-  
m, utinam  
od gratissi-  
ac famam  
obis & no-  
phemeridi-  
meum in-  
Astrologie  
tas rationis  
aliquid te-  
ando enim  
t. Ab hinc  
domestica  
issent, inte-  
na. Si quid  
am? In se-  
riculosum.  
cibo ac po-  
n prouentu  
, ut fileam  
ilifs. Viris  
us publicis,  
ero, ex qua  
um liberali-  
& mora re-  
ista aditum  
ommodior  
securitas

*Clariss. & Excell. Viro D. Ioan. Antonio Magino  
Mathematico Bononiensis Gymnasij.*



Go, Clarissime Vir, cogitaueram ad tuas 20. Aprilis datas, respondere solidè, sed præter opinionem accidit, vt die destinata scriptioni in aulam eundum, ibique perspicilli causa tempus terendum esset. Incidi in familias Principum antiquitus notas, dies abiit. Alia solido responso quærenda. Moræ damnum nullum erit: nam descripta tabularum Martis non habeo; necdum satis de conditionibus actum; nec Cæsar, quid huius laturus sit vel probaturus, adhuc se resoluit. Hac vice breuiter agam & parergas conditiones attingam.

Aequas fers conditiones computandi, si benè te intelligo. Addam proximè aliquas, & quæ obscurè scriptæ, illas dilucidabo.

Quod impressionem, si tu vel dimidium exemplarium petes pro impensarum dimidio, vel certum numerum pro labore: nemo erit in Germania, qui vel assem impensarum sustineat solus, vel iuxta te semissem. Igitur aut pete pecuniam pro labore; aut exemplaria hac conditione, vt pro ijs dimidium precij persoluas, aut ea non ante recipias, quam ego tantundè ex alijs exemplaribus præsentis pecuniæ habeam; aut denique societas impensarum exemplariumque, & lucri, indiuisa ad hæredes transeat, si contingat me, vel te mori restantibus exemplaribus, nihil diuidatur, nisi pecunia præsens, quæ erit quouis tempore. Id quomodo citra magnas impensas vel negocium fieri possit, proximè aperiam. Vnum valde necessario es monendus, Fundamentum, quo tu niteris, non valde placet. Tu idèd mecum vis contrahere, vt Origani Ephemeridibus tenebras offundamus. Ego etsi non teneor indemnem præstare Origanum, nihil tamen huius faciam vindictæ studio, quod meas admonitiones & oblatam societatem contempsit. Itaque hæc summè necessaria erit conditio, vt huius vestri certaminis in Ephemeridibus communi nomine edendis, ne leuissima quidem fiat mentio.

Quodd si interim dum inter nos plenè conueniat, aliquid contra Origanum es scripturus, id ita modereris, ne me aut contractum hunc nostrum implices. Malim te prius defunctum labore respondendi Origano. Nam quid inter nos agatur, consultius & speciosius est factò, ante verba demonstrare. Sed desino iam, tempore exclusus.

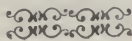
Vale Raptim Pragæ 10. Maij anno 1610.

T. Excell. Officiosis.

Ioan. Keplerus.



*Clariss. & Excellentiss. Viro D. Ioanni Keplero  
Mathematico Casareo.*



*Vir Clarissime.*



INSERTATIO cum nuncio sydereo literis inclusa, 20.  
Maij mihi est tradita: methodus perplacet, & Galilæo  
haud ingratam futuram credo. Mestlini Theses & opus  
anno præterito ab eodem editum de Planetarū hypothe-  
sibus nunquam à me visum, si tua opera consequi liceret,  
esset gratissimum, omnia libens vice alia recompensabo.  
Mittendi occasio offertur opportuna. Si enim dederis, Illustrissimus Do-  
minus Archiepiscopus Caietanus, Nuncius Apostolicus breui in Italiani  
profecturus adferet. Scrutia prompta vicissim polliceor. Ephemerides  
quod attinet, à te solidum responsum expecto. Meum interim animum  
D. Altogradus Orator Reip. Lucensis tibi aperiet, cui omnia scripsi. Ori-  
gano ante constructionem Ephemeridum breui paucis errorem, quem in  
longitudine Venetiarum, & Francofurti, necnon in aspectibus commi-  
sit omni cum modestia denuò confutabo, relictis conuitijs, quibus tota  
cuius epistola scatet. Finem scriptioni impono, & te cum omnibus tuis  
tutelæ diuinæ commendo.

Vale Bononiæ 26. Maij anno 1610.

Excellentiæ Tuae

Studiofissimus

Ioan. Antonius Maginus.

Magino

Aprilis da-  
accidit, vt  
que perspi-  
milias Prin-  
lo responso  
m descripta  
ctum; nec  
. Hac vice

ddam pro-

tes pro im-  
t in Germa-  
sem. Igitur  
vti pro ijs  
o tantundē  
societas im-  
seat, si con-  
ur, nisi pe-  
nagnas im-  
de necessa-  
lacet. Tu  
ras offunda  
nihil tamen  
oblatam so-  
tio, vt hu-  
ndis, ne le-

tra Origa-  
ic nostrum  
gano. Nam  
erba demon-

Keplerus.



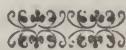




IOANNIS ANTONII

MAGINI PATAVINI

Compendium supputandarum Eclipsium  
ex Tyconico calculo correcto.



CANON PRIMVS.

*Ad explorandum verum tempus ☿, vel ☿ luminarium.*

**P**RIMO quidem, vt breuiter rem hanc pertractemus, præsupponemus tempus ipsius ☿, vel ☿ esse quàm proximè cognitum, idque vel ex Prutenico calculo hactenus vſitato, vel ex Ephemeridibus, quæ ad plures annos à nobis, & ab alijs conditæ sunt. Deinde ad illud temporis momentum supputabis vera luminarium loca ex his nostris Tyconicis Tabulis, quæ si videris cōuenire in eodem signo, gradu, & minuto, tempus assumptum erit conueniens illi luminarium coniunctioni. Quod si luminaria obtinuerint ex illo calculo loca opposita ad vnguem in gradibus & minutis, erit quidem illud tempus ritè constitutum ad illam luminarium oppositionem. Si calculus discrepabit, necesse erit tempus corrigere per horarium Lunæ motum à Sole, qui habetur ex tabella inferius posita, ingrediendo in eam cum Lunæ Anomalia æquata. Nam vbi hunc horarium Lunæ motum à Sole adinueneris in fronte Tabulæ verificationis ☿ & ☿ luminariū, quæ habetur pag. 676. in nostro Tabularum Secundorum Mobilium volumine, & à latere sinistro differentiam locorum luminarium ad scrupula, & secunda, obtinebis quidem tempus addendum priori tempori, si locus ☿ fuerit minor loco Solis: sed auferendum ab eodem, existente Lunæ loco in pluribus gradibus & minutis, quàm sit Solis locus. Postremo ad hoc correctum tem-

T  
pus

pus supputanda denuò sunt vtriusque luminaris loca, quæ si aliqua differentia discrepabant, colligi poterit tempus ad eundem prorsus modum per superationem ☿ à Sole horariam, vt adamussim habeatur calculus.

*Exemplum primum.*

Sit supputanda Eclipsis illa Lunaris iuxta hûc Tychonicum calculum, quam in nostris Ephemeridibus notauimus accidere ex Copernici calculo ad diem 23. Aprilis, & ad horam 16. 42'. post meridiem ad horizon-tem Venetum. Ad hoc autem temporis momentum colligo luminarium vera loca ex supradictis Tychonicis Tabulis, vt hic.

| S | G  | I  | "  |                                       |
|---|----|----|----|---------------------------------------|
| 1 | 1  | 59 | 17 | Longitudo ☿ ab Aequinoctio.           |
| 3 | 5  | 49 | 44 | Apogæum.                              |
| 9 | 26 | 9  | 33 | Anomalia Solis annua.                 |
|   | 1  | 49 | 43 | Aequatio addenda.                     |
| 1 | 3  | 49 | 0  | Verus locus ☿                         |
| 7 | 4  | 47 | 32 | Longitudo ☾ ab Aequinoctio.           |
| 5 | 14 | 39 | 8  | Anomalia ☾ media.                     |
|   | 1  | 21 | 26 | Aequatio Epicyclica subtrahenda.      |
| 5 | 13 | 17 | 42 | Anomalia Lunæ æquata.                 |
| 7 | 3  | 26 | 6  | Longitudo ☾ æquata.                   |
| 1 | 3  | 49 | 0  | Verus locus ☾                         |
| 5 | 29 | 37 | 6  | Distantia luminarium.                 |
|   |    | 1  | 32 | Aequatio Eccentricitatis subtrahenda. |
| 7 | 3  | 24 | 34 | Verus locus ☾                         |
|   |    | 24 | 26 | Differentia à loco ☿ opposito.        |

Luna igitur ad illud momētum nondum assequitur Solis oppositum, differens min. 24'. 26". Quare cum Lunæ Anomalia colligo ex tabella motus horarij infra posita horarium motum ☿ à Sole min. 33'. 15". quem adinuenio in tabella verificationis ☿ & ☾ luminarium, & cum min. 24'. 26". Differentiæ luminarium colligo min. 44. temporis, quæ addenda sunt tempori dato, vt prodeat dictæ oppositionis tempus ad horam 17. 26'. & rursus ad hoc tempus inquiri luminarium loca, vt hic.



| S | G  | I  | II |   |
|---|----|----|----|---|
| 1 | 2  | 1  | 5  | Longitudo ☉ ab Aequinoctio.             |
| 3 | 5  | 49 | 44 | Apogaeum.                               |
| 9 | 26 | 11 | 21 | Anomalia ☉                              |
|   | 1  | 49 | 42 | Aequatio addenda.                       |
| 1 | 3  | 50 | 47 | Verus locus ☉                           |
| 7 | 5  | 11 | 41 | Longitudo Lunae ab Aequinoctio.         |
| 5 | 15 | 3  | 5  | Anomalia ☾                              |
|   | 1  | 19 | 23 | Aequatio Eccentricitatis subtrahenda.   |
| 5 | 13 | 43 | 42 | Anomalia æquata.                        |
| 7 | 3  | 52 | 18 | Longitudo ☾ correctæ, seu verus locus ☾ |
|   |    | 1  | 31 | Differentia à Solis opposito.           |

Superavit autē Luna ad hoc momentum Solis oppositum min. 1'. 31". unde tempus huic differentiæ correspondens scilicet min. 2'. 45". auferendum est à tempore superius correcto, ut prodeat exactum tempus ☿ ad horam 17. 23'. 15". ad quod sic se habent luminarium motus.

| S | P  | I  | II |                                  |
|---|----|----|----|----------------------------------|
| 1 | 3  | 50 | 40 | Verus locus ☿                    |
| 7 | 5  | 10 | 10 | Longitudo ☿ ab Aequinoctio.      |
| 5 | 15 | 1  | 35 | Anomalia ☿                       |
|   | 1  | 19 | 30 | Aequatio Epicyclica subtrahenda. |
| 5 | 13 | 42 | 5  | Anomalia æquata.                 |
| 7 | 3  | 50 | 40 | Verus Lunæ locus.                |
| 0 | 24 | 33 | 21 | Verus locus ♄                    |
| 6 | 9  | 17 | 19 | Argumentum latitudinis.          |
|   | 0  | 48 | 7  | Vera Lunæ latitudo Merid.        |

Reducitur verò supra dictum tempus ad apparens iuxta doctrinam Canonis sexti superioris supplementi addendo, scilicet min. 9'. 2". collecta ex tabella æquationis temporis in Luna, atque sic prodit correctum tempus ad hor. 17. 32'. 17". dictæ ☿.

*Secundum Exemplum.*

Libeat modò indagare tempus veræ luminarium coniunctionis Eclipticæ eiusdem anni, quod secundum calculum Prutenicum notauimus in nostris Ephem. ad diem 3. Octobris hor. 1. 33'. à Meridie. Sed cum Tychonicus calculus ad illud momentum luminaria coniuncta non exhibeat, ideò facta iusta, ex reiteratione calculi, rectificatione, colligimus exactum dictæ coniunctionis tempus esse ad hor. 1. 16'. 19". p. m. & verum luminarium calculum hunc esse.

| S | P  | i  | ii |   |
|---|----|----|----|---|
| 6 | 12 | 0  | 54 | Longitudo ☉ ab Aequinoctio.               |
| 3 | 5  | 50 | 4  | Apogæum ☉                                 |
| 3 | 6  | 10 | 50 | Anomalia ☉                                |
|   | 2  | 2  | 42 | Aequatio subtrahenda.                     |
| 6 | 9  | 58 | 12 | Verus locus ☉                             |
| 6 | 14 | 4  | 26 | Longitudo ☿ ab Aequinoctio.               |
| 4 | 5  | 50 | 45 | Anomalia ☿                                |
|   | 4  | 6  | 14 | Aequatio Epicyclica subtrahenda.          |
| 4 | 1  | 44 | 31 | Anomalia ☿ æquata.                        |
| 6 | 9  | 58 | 12 | Longitudo ☿ æquata, seu verus locus eius. |

## C A N O N S E C V N D V S.

*An proposita luminarium oppositio sit Ecliptica.*

**C**A. N. O. N. E 67. Tabularum Secundorum Mobilium nostrarum duas dedimus regulas cognoscendi Lunares Eclipses secundum Prutenicum calculum, quæ vsum habeat quoque in Tychonico calculo. Prima quidem est, conferendo verum Lunæ locum cum vero nodi Borci, seu Austrini loco: Nam quando Luna ipsa minus distat ab alterutro nodo gradibus 12, siue in antecedentia, siue in consequentia, dubio procul patietur Eclipsim.

Vt in dicto nostro exemplo oppositionis luminarium ad diem 23. Aprilis anni 1614. Cum detur Lunæ locus verus in gr. 3. 50'. 40". ☿ & locus nodi Austrini, seu ♄ in gr. 24. 33'. 21". ☿ erit distantia ☿ à dicto nodo grad. 9. 9'. tantummodo. Quare certò pronuciari potest, oppositionem illam fore Eclipticam.

Altera



Altera regula & magis expeditior præcipit, comparandam esse Lunæ veram latitudinem ad tempus veræ oppositionis cum aggregato semidiametrorum Lunæ & vmbre terrenæ: Nam quando illo dicto aggregato reperitur minor, plenilunium illud erit Eclipticum, vt in sequenti Canone dicemus.

## CANON TERTIVS.

*De apparentibus Semidiametris Solis, Lunæ, & vmbre terræ.*

**I**VXTA hypothesen Copernici dedimus Canonem 68. nostrarum Tabularum Secundorum Mobilium pro inquirendis horum trium corporum semidiametris: Sed tamen limitatio horum semidiametrorum à Copernico tradita minimè apparentijs cælestibus satisfacit. Quinetiam nec Tychonica designatio dictorum semidiametrorum veritati correspondet, quæ habetur in Progymnasmatibus ipsius Tychonis, cum ille quidem vir vno scrupulo diametrum Solis apparentem ampliorem faciat in Perigæo quàm re vera sit, vtpote minorum 32. cum tamen ex doctissimi Kepleri correctione in suis Paralipomenis ad Vitellionem, dentur tãtùmmodo min. 31. Sed multo magis deceptus fuit idem Tycho in taxanda Lunæ diametro, dum putat ipsam in conjunctionibus esse multò minorem quàm in oppositionibus, quasi Luna (tamen in vtraque habitudine æquali interstitio à terra remoueat) nō retineat eandem diametrum visibilem tunc, quam retinet in oppositionibus, vultque ille vi luminis Solaris margines Lunæ extenuari ad quartam ferè totius diametri Lunarum partem. Qua de causa dedit Tabulam semidiametrorum Lunæ peculiarem, continentem nimirum semidiametrum Lunæ in ☿ minorem quàm in ♀ plus tribus minutis, vt sit tota Lunæ diameter visibilis in ☿ sex minutis cum dimidio propemodum minor, quam in ♀. Sed cum huic Tychonis assertioni refragetur experientia omnis: tunc enim sequeretur, nunquam fieri totales obscuraciones Solares, cum tamen sæpè obseruatum sit Solem totaliter fuisse obscuratum. Ideirco secundum doctrinam Appendicis ad Tychonis Progymnasmata, & de mente doctissimi Kepleri in suis iam dictis Paralipomenis ad Vitellionem, damus infra correctiorem semidiametrorum luminarium Tabulam, secundum quam si supputentur luminarium Eclipses, prodibunt profectò multò certiores quam ex calculo merè Tychonico, quem tradidit Tycho in suis Progymnasmatibus, & quem malè consultus Origanus sequitur in suis Ephemeridibus.

Pro colligendo itaque Solis semidiametro apparente, vtaris Anomalia Solis annua, & pro colligenda Lunæ semidiametro, atque etiam vmbre terrenæ, vtaris Anomalia Lunæ æquata. Cumque vmbre terræ semidiameter euariet ratione situs Solis, siquidē semidiameter vmbre, quæ no-

tatur

tionis Ecli-  
notauimus  
e. Sed cum  
ta non exhi-  
colligimus  
p. m. & ve-

ocus eius.

strarum duas  
um Pruteni-  
culo. Prima  
di Borei, seu  
tro nodo gra  
procul patie-

liem 23. Apri  
& locus  
à dicto nodo  
oppositionem

Altera

tatur in Tabula, fit Sole versante in Apogæo, & illico sequitur variatio ipsius, quæ fit pro remotione Solis ab Apogæo; idcirco cum Anomalia Solis sumenda est variatio vmbre semper auferenda ab vmbre terrenæ semidiametro, vt prodeat ipsa correcta.

*Exemplum.*

Sit colligenda Solis semidiameter ad tēpus Nouilunij Ecliptici 1614. die 3. Octobris, sicut in secundo exemplo primi Canonis notauimus. Cū Anomalia igitur Solis quam in dicto Canone posuimus sig. 3. gr. 6. 11'. comperio in Tabula semidiametrorum paulò infra posita Solis semidiameter apparentem min. 15'. 16".

Similiter quoque in altero exemplo Plenilunij Ecliptici eiusdem anni ad diem 23. Aprilis cum data sit Lunaris Anomalia æquata sig. 5. gr. 13. 42'. Ipsi quidem in eadem Tabula respondet semidiameter min. 17'. 16". & semidiameter vmbre terrenæ scr. 46'. 52". & variatio vmbre elicitur cum Solari Anomalia sig. 9. gr. 26. 11'. ex eadem tabella Secundorum 9. quæ allata à terrenæ vmbre semidiametro relinquit illam æquatam & correctam min. 46'. 43".

CANON QVARTVS.

*De magnitudine Lunaris Deliquij.*

**R**ECURRAS ad Canonem 69. nostrarum Tabularum: nam eodem modo, quo in calculo Copernici, quantitas futuri defectus cognosci potest. Satisfacit enim pro hoc negocio eademmet tabella digitorum Eclipticorum, quæ habetur in dictis Tabulis pag. 684. In qua sanè fit introitus lateraliter cum apparente Lunæ diametro, & in fronte cum excessu summæ ambarum semidiametrorum, Lunæ scilicet, & vmbre, quando à dictis coniunctis semidiametris aufertur vera Lunæ latitudo, & in area patent digiti Ecliptici seu puncta talis defectus. Ecce autem exempli formulam pro dicto Plenilunio Ecliptico.



| P | I  | II |                               |
|---|----|----|-------------------------------|
|   | 17 | 16 | Semidiameter ☉                |
|   | 34 | 32 | Tota ☉ diameter.              |
|   | 46 | 52 | Semidiameter vmbrae terrae.   |
|   |    | 9  | Variatio vmbrae.              |
|   | 46 | 43 | Semidiameter vmbrae correcta. |
|   | 63 | 59 | Aggregatum semidiametrorum.   |
|   | 48 | 7  | Latitudo ☉ ad medium ☽        |
|   | 15 | 52 | Excellus.                     |
| 5 | 31 |    | Digitus seu puncta Eclipsis.  |

## CANON QVINTVS.

*De Scrupulis Incidentiae, & morae dimidia, ex quibus tempus Incidentiae  
& morae cognoscitur.*

CANONE 70. earundemmet Tabularum egimus de Scrupulis Incidentiae, & morae, cuius Canonis summa haec est. Si Eclipsis Lunae fuerit partialis, hoc est minor quam 12. digitorum, vel praecise 12. digitorum, qui integram Lunarem diametrum complent, ingredi tabellam Scrupulorum Incidentiae, & morae dimidia simul in defectu Lunae positam pag. 689. nostrarum Tabularum Secundorum Mobilium, compariendo in fronte aggregatum semidiametrorum Lunae & vmbrae, & à latere latitudinem ☉ veram ad medium Eclipsis, & in area dabuntur Scrupula Incidentiae, quae Luna à Sole peragrat ab initio defectus vsque ad medium, & rursus à medio vsque ad finem. Quae quidem Scrupula Incidentiae comperta lateraliter in Tabulam verificationis ☿ vel ☽ luminarium, quae habetur pag. 676. sub debita columna continente superationem ☉ à Sole horariam, dabunt in area quaesitum tempus Incidentiae. Sed cum Eclipsis excesserit 12. digitos seu puncta; tunc quia erit cum mora aliqua in tenebris, opus est separare Scrupula morae à Scrupulis Incidentiae. Collectis enim prius Scrupulis Incidentiae ad eundem modum colliges confestim Scrupula morae dimidia cum differentia Scrupulorum vtriusque semidiametri Lunae & vmbrae in fronte comperta, & à latere cum vera ☉ latitudine ex tabella, cui titulus est Morae dimidia in Eclipsi Lunae pag. 688. Quae Scrupula morae dimidia si fuerint sublata à Scrupulis Incidentiae & morae dimidia simul confusis, relinquentur Scrupula Incidentiae sola. Cum quibus quidem Scrupulis Incidentiae & morae separatim ab inuicem colliges per Tabulam verificationis ☿ vel ☽ luminarium, ope superationis Lunae horariae, tam tempus incidentiae, quam tempus morae,

moræ, ac proinde initium exitum, atque integram durationem ipsius deliquij probè cognosces, sicut diximus Canone 71. dictarum nostrarum Tabularum. Sed adhibito aliquo exemplo rem hanc clarius intelliges.

Continuando itaque idem exemplum Lunaris Eclipsos, recurro ad Tabulam Scrupulorum Incidentiæ, & moræ dimidiæ simul in defectu Lunæ, sumendo in eius capite aggregatum semidiametrorum ☉ & umbræ min. 63'. 59". & à latere scrupula 48'. 7". latitudinis ☉, & in area excipio Scrupula Incidentiæ 42'. 10". adhibita correctione, ut moris est. Quæ scrupula sic conuertuntur in tempus. Cum Anomalia ☉ sit fig. 5. gr. 13. 42'. accipio cum ea motum ☉ à Sole horarium min. 33'. 16". ex infra posita tabella, quem obseruo in fronte Tabule verificationis ☿, & ☿ luminarium, quæ habetur in nostris Secundorum Mobilium Tabulis, & cum Scrupulis Incidentiæ à latere compertis, colligotempus Incidentiæ h. 1. 16'. 2". Cum autem Eclipsis medium tempore apparenti sit notatum ad diem 23. Aprilis h. 17. 32'. 17", erit igitur initium ad horam 16. 16'. 15". & finis ad h. 18. 48'. 19".

#### CANON SEXTVS.

*Veram Lunæ latitudinem tam ad initium, quàm ad finem Lunaris deliquij cognoscere, atque ipsius deliquij typum effigiare.*

**H**ABEAS verum Solis motum congruentem temporis dimidiæ durationis Eclipsis, quem adde Scrupulis Incidentiæ, & moræ dimidiæ simul: nam sic efficiēs verum Lunæ motum congruentem eidem tempori, quē motum auferes à vero Argumento latitudinis ad medium Eclipsis, & prodibit Argumentum latitudinis ad initium, & eundem motum pariter adde eidemmet Argumento ad medium Eclipsis, & erit Argumentum latitudinis ad finem Eclipsis. Vnde facillè illo mediante obtinebis veram Lunæ latitudinem, tam ad initium, quàm ad finem ipsius Eclipsis. Vt in nostro exemplo, in quo dabatur Argumentum latitudinis ☉ ad medium Eclipsis fig. 6. gr. 9. 17'. 19". & Scrupula Incidentiæ 42'. 10". atque tempus Incidentiæ h. 1. 16'. cui competunt de motu ☉ m. 3'. 8". quæ addita Scrupulis Incidentiæ, faciunt m. 45'. 18". pro motu ☉ congruente dimidiæ durationi Eclipsis. Si itaque hunc Lunæ motum auferemus primo ab Argumento latitudinis dicto, postea addemus eidem, conficiemus Argumentum latitudinis, tam ad initium Eclipsis, quàm ad finem, ex quo colligetur latitudo, *vt hic.*



| S | G  | i  | ii |  |
|---|----|----|----|--|
| 6 | 9  | 17 | 19 | Argumentum latitudinis ☉ ad mediū Eclip. |
|   |    | 45 | 18 | Motus ☉ competens dimidiæ durationi.     |
| 6 | 8  | 32 | 1  | Argumentum latitudinis ad initium.       |
|   |    | 44 | 14 | Vera latitudo ☉ ad initium.              |
| 6 | 10 | 2  | 37 | Argumentum latitudinis ad finem.         |
|   |    | 52 | 3  | Vera latitudo ad finem.                  |

Typum verò huius Eclipsis conuenienter designamus iuxta Can. 74. diſtarum noſtrarum Tabularum, vt hic habes.

*Boreas.*



*Auster.*

### CANON SEPTIMVS.

*De luminarium Parallaxibus in Solaribus deliquijs neceſſarijs; & primo de Solis Parallaxi in circulo altitudinis, ſeu verticali.*

**N**ON eſt neceſſe, vt hic repetamus ea, quæ de Parallaxi, ſeu aſpectus diuerſitate fuſius tractauimus Canone 75. Tabularum Secundorum Mobilium, ad quem ſtudioſum lectorem remittimus, & ad praxim accedentes, dicimus, quod cum luminarium Parallaxes nequeant haberi,

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niſi

nisi prius cognita fuerit altitudo vtriusque supra Horizontem; idcirco pro hac habenda cōfugiemus ad aliquod ex Problematibus Septimi Libri nostri Primi Mobilis, scilicet ad decimum, vel vndecimum. Sed magis forsitan expediet vti duodecimo Problemate, ope scilicet anguli Eclipticæ, & Horizontis, qui facile potest colligi ad quamcumque horam ex particulis Tabulis, quas in nostro Directionum opere damus.

Primo itaque cognoscendum est ad horam datam Nouilunij Eclipticæ punctum illud Eclipticæ exoriens, vel occidens, cui scilicet propior fuerit Sol, atque ipsius quoque Solis à dictomet puncto distantia computanda est secundum Eclipticæ arcum.

Deinde secundo colligendus est angulus Eclipticæ & Horizontis ad illud punctum exoriens vel occidens, sicut docuimus Canone 20. Tabularum Primi Mobilis, videlicet accipiendo signum in fronte, & gradus à latere sinistro, seu signum in calce, & gradus à latere dextro illius Tabulæ angulorum Eclipticæ, & Horizontis, quæ eleuationi tuæ ciuitatis aptatur. Quæ sanè Tabulæ ad plures eleuationes polares reponuntur in fine dicti voluminis.

Tertio cum hoc angulo Eclipticæ & Horizontis, atque cum distantia Solis à puncto orientis vel occidentis lateraliter in prima seu Generali Primi Mobilis Tabula cōpertis excipies in area altitudinem Solis quæ sita.

Postremò verò cū hac Solis altitudine supra Horizontem à sinistro latere Tabulæ parallaxium Solarium comperta obtinebis ipsam Solis parallaxin.

Sit adinuenienda Solis parallaxis ad tempus veræ coniunctionis diei 3. Octobris hor. 1. 16'. 19". quam supputauimus supradicto Canone 1. in gr. 9. 58'. 12". cui loco respondet sub titulo decimæ domus ad eleuationem poli graduum 45. hor. 12. 36'. 38". Tempus à Meridie.

|    |    |    |                             |    |
|----|----|----|-----------------------------|----|
| 1  | 16 | 19 | Tempus addendum veræ        | σ. |
| 13 | 52 | 57 | Aggregatum temporis, ex quo |    |

in Tabula domorum cælestium habetur gradus exoriens 2. 17'. 6" à quo distat Sol grad. 82. 26'. quod patet subducendo locum Solis à dicto gradu exoriens. Cum gradu autem exortus colligo ex Tabula angulorum Eclipticæ & Horizontis ad latitudinem grad. 45. quæ habetur pag. 201. Tabularum Primi Mobilis, angulum grad. 38. 34'. cum quo angulo & cum distantia Solis ab ortu gr. 82. 26'. colligo ex prima Tabula generali Primi Mobilis per lateralem introitum altitudinem Solis supra Horizontem grad. 38. 10'. cum qua demum in Tabula parallaxium Solarium, quæ ponitur in hoc volumine pag. 59. Parallaxin Solis min. 2'. 21". in circulo altitudinis.

Para-



## C A N O N O C T A V V S.

*Parallaxin ☉ in circulo itidem altitudinis tempore coniunctionis cum Sole indagare.*

**A**LTI TUDO Solis nunc explorata deferuit etiam pro Lunæ altitudine, quando ipsa luminaria coniunguntur. Collecta autem per Lunæ Anomaliam distantia Lunæ à terra in Semidiametris terræ ex subsequenti Tabella, obseruabis eam frontaliter in altera Tabella parallaxiū Lunarium, & à latere Lunæ altitudinem, & in area obtinebis ☉ parallaxin in circulo altitudinis, à qua si reieceris Solis parallaxin in superiori Canone adinuentam, habebis quidem parallaxin Lunæ ad Solem.

Vt in eodem exemplo Eclipticæ ☿ fuit adiuenta Solis altitudo gr. 38. 10'. & tanta est etiam Lunæ altitudo, cumque Anomalia Lunarum æquatur detur in exemplo superioris primi Canonis fig. 4. gr. 1. 44'. 31". colligemus cum illa distantiam ☉ à terra semid. 55. 48'. & parallaxin ☉ simplicem 49'. 1". à qua si tollatur Solis parallaxis, remanet ☉ parallaxis à Sole in circulo altitudinis 46'. 40".

## C A N O N N O N V S.

*Ex parallaxi ☉ à Sole in circulo altitudinis discernere parallaxin eiusdem Lunæ à Sole, tam in longitudinem, quam in latitudinem.*

**R**EVIOREM ac compendiosiore nunc dabimus formam parallaxes Lunares exquirendi, quam fecerimus Canone 76. Tabularum Secundorum Mobilium. Confugiendum est autem ad problema duodecimum Libri XII. nostri Primi Mobilis, ubi diuersos damus modos parallaxin, tam longitudinis, quam latitudinis explorandi cum demonstratione & figuratione Sphærica competenti, ex quo problemate accepimus hanc praxin ceteris expeditiorem.

Primo quidem colligatur angulus, quem facit Ecliptica cum verticali, seu circulo altitudinis apud Lunam, sicut docuimus prob. 35. Sexti Libri Primi Mobilis, in hunc videlicet modum. Ingredere Tabulam tertie Analogiæ, quæ habetur in nostris Directionum Tabulis, cum distantia Solis ab ortu vel occasu in eius calce, & à sinistro latere cum angulo Eclipticæ & Horizontis paulò supra explorato, & in area habebis complementum anguli Eclipticæ cum circulo altitudinis seu verticali, vnde per subtractionem à gradibus 90. non latebit ille angulus.

Secundo pro eruenda parallaxi in longitudinem, ingredere Primi Mobilis generalem Tabulam cum hoc inuento angulo Eclipticæ & verticalis à dextro latere eius, & cum parallaxi Lunæ à Sole in circulo alti-

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itudinis in fronte, & in area dabitur parallaxis in longitudinem.

Tertio demum ingredi iterum eadem Primi Mobilis Tabulam cum iisdem datis, sumendo ut supra in fronte parallaxin ☉ à ☼ in circulo altitudinis, sed à sinistro latere angulum Eclipticæ & verticalis, & in area pariter patebit parallaxis in latitudinem. Quæ tamen non solet colligi nisi ad ipsissimum momentum visibilis coniunctionis luminarium. Et in hac profecto operatione expedit magis uti generali Tabula illa Primi Mobilis, quæ habetur in nostro Primo Mobili, & continet secunda scrupula: non autem illa, quæ extat in nostris Directionum Tabulis ad gradus & minuta tantum elaborata.

Præterea, & hoc etiam advertendum est, quod in operatione collectionis parallaxis longitudinis, sequimur formam calculi rectilinei trianguli rectanguli, cum triangulum illud Sphæricum rectangulum constet ex tribus exiguis arcibus insensibiliter à rectis lineis differentibus, eo quia basis, seu maius latus rectum subtendens non est unquam maior 66. minutis, quanta scilicet est maxima parallaxis ☉ in circulo altitudinis, reliqua verò duo latera ambientia rectum angulum referunt parallaxes longitudinis & latitudinis, ut patet in nostro Primo Mobili.

In nostro assumpto exemplo cum distantia Solis ab ortu grad. 82. 26'. sumpta in calce Tabulæ tertiæ Analogiæ, & cum angulo Eclipticæ & Horizontis in fronte eiusdem accepto grad. 38. 34'. colligo ex area grad. 6. 0'. cuius complementum est angulus Eclipticæ cum verticali grad. 84. 0'. quem quidem angulum comperio à dextro latere generalis Tabulæ & in fronte parallaxin Lunæ à Sole in circulo altitudinis nempe min. 46'. 40". & in area patet parallaxis Lunæ à Sole in longitudinem min. 4'. 53".

#### CANON DECIMVS.

*Momentum temporis apparentis & luminarium exactè definire.*

**S**OLARIBVS in deliquijs tempus illud solet considerari, quo luminaria ipsa visibiliter non autem verè coniunguntur, hoc est, quando ambo ipsa lumina in recta incidunt linea, quæ à superficie terræ, seu ab oculis aspicientium educitur ad luminaria: nam secundum illam, & non aliam lineam contingunt defectus Solares. Ad hoc autem temporis momentum inuestigandum opus est primo, ut ad tempus veræ coniunctionis colligatur parallaxis Lunæ à Sole in longitudinem, sicut diximus in præcedente Canone.

Deinde secundo cognoscendus est apparens Lunæ motus à Sole horarius, vel ad aliquod aliud temporis spatium, & quidem ante veræ coniunctionis momentum, si ipsa coniunctio fiat in quadrante orientali Eclipticæ; sed post illud, si in quadrante Eclipticæ occidentali contingeret. Tradidimus autem Canone 77. Tabularum Secundarum Mobilium modum



dum colligendi ipsum motum Lunæ horarium apparentem à Sole, vel cum aliud temporis spatium, quam operationē ad vnguem sequi poteris, præterquam quod elicere debes horarium motum Lunæ à Sole ex tabella, quæ paulò post sequetur. Sed fortasse minus perplexa erit forma colligendi horarium motum Lunæ à Sole, definiendo, tam ad initium, quam ad finem horæ visum Lunæ locum: nam vtriusque differentia erit horarius Lunæ motus apparens à quo subducendo Solis motum horarium, relinquitur horarius motus Lunæ à Sole apparens. Postea verò recurre ad Tabulam verificationis & luminarium, quæ ponitur pag. 676. Secundorum Mobilium, obseruando in eius fronte apparentem Lunæ horarium motum à Sole, & à latere parallaxin Lunæ à Sole in longitudinem, atque quicquid in area Tabulæ excipies, erit temporis interuallum inter veram & apparentem luminarium coniunctionem. Quod sanè subducendum est à tempore veræ & supra adinuento, si dicta & continget in Quadrante Eclipticæ orientali, seu ante 90. Eclipticæ gradum ab ascendente numeratum; quia tunc apparens coniunctio antecedit veram. Sed illud idem interuallum addes tempori veræ & in quadrante Eclipticæ occidentali, in quo semper apparens & sequitur veram. Postremò verò ad hoc ipsum tempus apparentis & supputabis vtriusque luminaris vera loca, atque iterum quoque elicies parallaxin ☾ à ☉ in longitudinem, quam si comperies congruere ad vnguem cum distantia vtriusque luminaris, certus eris, illud temporis momentum apparentis & exactum esse, & congruè adinuentum. Alioquin si discrepabit, vtriusque differentia in tempus commutanda est, & corrigendum erit rursus tempus iuxta cautiones à nobis Canone 80. Tabularum Secundorum Mobilium datas. Sed hanc simpliciore formam sequi expediet forsitan, ut quæ minus cautelis impeditur. Ad aliquod temporis interuallum ante, vel post veram synodum, quod tuo arbitratu iudicabis cōuenire parallaxi ☾ à ☉, nimirum ex distributione illius per motum ☾ horarium à Sole, supputabis vera vtriusque luminaris loca, & elicies quoque ad illud idem momentum parallaxin Lunæ in longitudinem, quam addes loco Lunæ in priore Eclipticæ Quadrante, vel auferes in posteriore, ut habeas visum Lunæ locum ad hoc tempus, quem confer cum vero Solis loco tunc supputato, ut habeas vtriusque differentiam, quam multiplicabis in illud temporis interuallum assumptum, & productum partire per parallaxin Lunæ à Sole in longitudinem, quam ad medium & veræ elicuiisti, atque sic exibat tempus, quo corrigere debes momentum illius visibilis coniunctionis. Sed hanc operationem melius per exemplum percipies.

Cum in nostro exemplo sit ad tempus veræ & adinuenta Lunæ parallaxis in longitudinem 4'. 53". contingatque illa sinodus ante nonagesimum Eclipticæ gradum ab ascendente, qui est grad. 2. 17'. ☿; ideo apparens sinodus præcedit veram. Quæ ut citius possit indagari, supputabimus

bimus vera luminarium loca sexta tantum parte horæ, idest decem minutis ante veræ coniunctionis tempus, quantum scilicet putamus exigere illam parallaxin, & erit tempus ad horam 1. 6'. 20". p. m.

| S  | G  | '  | "  |   |
|----|----|----|----|---|
| 6  | 9  | 57 | 48 | Verus locus ☉   |
| 6  | 13 | 58 | 58 | Longitudo ☉ ab Aequinoctio.                                 |
| 4  | 5  | 45 | 19 | Anomalia ☉  |
|    | 4  | 6  | 30 | Aequatio Epicyclica subtrahenda.                            |
| 4  | 1  | 38 | 49 | Anomalia æquata.  |
| 6  | 9  | 52 | 28 | Longitudo ☉ æquata.   |
| 6  | 9  | 57 | 48 | Verus locus ☉ vt supra.                                     |
| 11 | 29 | 54 | 40 | Distantia ☉ à ☉   |
| 5  | 29 | 54 | 40 | Distantia ☉ à ☉ opposito.                                   |
|    |    |    | 15 | Aequatio Eccentricitatis subtrahenda.                       |
| 6  | 9  | 52 | 13 | Verus locus ☉   |
|    |    | 5  | 35 | Differentia à vero loco ☉                                   |
|    | H  | '  | "  |   |
|    | 12 | 36 | 38 | Tempus respondens loco ☉ in Tabula domorum ad polum gr. 45. |
|    | 1  | 6  | 19 | Tempus post meridiem.                                       |
|    | 13 | 42 | 57 | Aggregatum ex quo colligitur.                               |
| S  | G  | '  | "  |   |
|    | 0  | 0  | 70 | Punctum Eclipticæ exiens.                                   |
|    | 80 | 2  |    | Distantia ☉ ab ortu.  |
|    | 39 | 32 |    | Angulus Eclipticæ & Horizontis.                             |
|    | 38 | 50 |    | Altitudo Solis.   |
|    |    | 2  | 19 | Parallaxis ☉ } in circulo verticali.                        |
|    |    | 48 | 30 | Parallaxis ☉ }  |
|    |    | 46 | 11 | Parallaxis ☉ à ☉ in verticali.                              |
|    | 81 | 51 |    | Angulus Eclipticæ cum verticali.                            |
|    |    | 6  | 33 | Parallaxis longitudinis ☉ à ☉                               |
| 12 | 9  | 52 | 13 | Locus verus Lunæ addendus.                                  |
|    | 9  | 58 | 46 | Locus ☉ apparens.   |
|    | 9  | 57 | 48 | Verus locus ☉   |
|    |    | 0  | 58 | Differentia vtriusque.                                      |



Multiplio itaque hanc differentiā in decem temporis minuta, idest in 600". & producuntur secunda 34800. quæ diuisa in parallaxin priorem 4'. 53". idest 293". dat in quotiente secunda temporis 119. quæ faciunt duo ferè minuta temporis, quæ auferenda veniunt ab hoc secundo tempore assumpto, idest ab h. r. 6'. 19". vt fiat exactum tempus apparentis coniunctionis ad h. r. 4'. 18". p. m. ad quod tempus si conformetur superior calculus, magis ille quidem conueniet, vt hic.

| S     | G  | i  | "  |  |
|-------|----|----|----|--|
| 6     | 9  | 57 | 43 | Verus locus ☉                            |
| 4     | 1  | 37 | 44 | Anomalia ☿ æquata.                       |
| 6     | 9  | 51 | 7  | Verus locus ☿                            |
|       | H  | i  | "  |  |
|       | 12 | 36 | 38 | Tempus respōdens loco ☉ in Tab. domorum. |
|       | 1  | 4  | 18 | Tempus post Meridiem.                    |
|       | 13 | 40 | 56 | Aggregatum, ex quo colligitur.           |
| S     | G  | i  | "  |  |
| +) 29 | 31 |    |    | Punctum exoriens.                        |
| 79    | 33 |    |    | Distantia ☉ ab ortu.                     |
| 39    | 45 |    |    | Angulus Eclipticæ & Horizontis.          |
| 38    | 57 |    |    | Altitudo ☉                               |
|       | 2  | 19 |    | Parallaxis ☉ } in circulo verticali.     |
|       | 48 | 25 |    | Parallaxis ☿ }                           |
|       | 46 | 6  |    | Parallaxis Lunæ à ☉ in verticali.        |
|       | 81 | 22 |    | Angulus Eclipticæ cum verticali.         |
|       | 6  | 56 |    | Parallaxis longitudinis ☿ à ☉            |
| 6     | 9  | 51 | 7  | Locus verus Lunæ addendus.               |
| 6     | 9  | 58 | 3  | Locus apparens Lunæ.                     |
|       |    | 20 |    | Differentia à vero loco ☉                |

Vides igitur exiguam esse differentiā loci Lunæ apparentis à vero Solis loco, vtpote ad orientem minuti, quæ non attingit in tempore vnum minutum, sed circiter 40". Vnde tutò pronunciamus, exactissimum tempus huius apparentis ☿ esse ad h. r. 3'. 38". p. m. & addita æquatione temporis m. 3'. 16". erit ad h. r. 6'. 54".

*Latitu-*

## CANON VNDECIMVS.

*Latitudinem Lunæ visam, seu apparentem ad tempus apparentis  
coniunctionis cognoscere.*

**C**OLLIGE ex octauo Canone superioris Supplementi veram Lunæ latitudinem ad tempus apparentis coniunctionis, & ex Canone 9. huius compendij elice parallaxin ipsius Lunæ in latitudinem, quæ Australis semper erit, præsertim in nostris climatis Borealibus ultra secundum clima. Postea addes illam veræ latitudini ☾, quando fuerit eiusdem denominationis, utpote Australis, ut fiat latitudo ☾ apparens. Quod si Lunæ latitudo fuerit Borealis, sumatur utriusque differentia, quæ retinebit affectionem maioris numeri pro ipsa Lunæ latitudine apparente.

Ad ipsum tempus apparentis coniunctionis superius exploratum, hoc est ad diem 3. Octobris 1614. hor. 1. 3'. 38". tali forma exploratur apparens Lunæ latitudo.

| S  | P  | i  | "  |  |
|----|----|----|----|--|
| I  | 0  | 34 | 42 | R. ☾ ad annum completum 1613.                    |
| 0  | 14 | 36 | 56 | Motus ad diem 3. Oct.                            |
|    |    |    | 8  | Pro h. 1. 3'. 38".                               |
| 0  | 14 | 37 | 4  | Aggregatum subtrahendum à radice.                |
| 0  | 15 | 57 | 38 | Motus medius ☾                                   |
| 6  | 9  | 50 | 47 | Verus locus ☾ ultimo correctus.                  |
| 6  | 9  | 57 | 43 | Verus locus ☼                                    |
| 11 | 29 | 53 | 4  | Distantia ☾ à ☼                                  |
| 5  | 29 | 53 | 4  | & ab eius opposito.                              |
|    |    |    |    | Aequatio ☾ add.                                  |
| 0  | 15 | 58 | 5  | Verus loc. ☾, qui ablatus à vero loco ☾ relinqt. |
| 5  | 23 | 52 | 42 | Argum. latitudinis ☾                             |
|    |    | 31 | 46 | Vera latitudo ☾ ad medium visibilis ☾ Sept.      |
|    |    | 46 | 6  | Parallaxis ☾ à ☼ in verticali.                   |
|    | 81 | 22 |    | Angulus Eclipticæ & verticalis.                  |
|    |    | 45 | 35 | Parallaxis ☾ in latitudinem Meridionalis.        |
|    |    | 31 | 46 | Vera latitudo ☾ Sept. subtr.                     |
|    |    | 13 | 49 | Latitudo ☾ apparens seu visâ Merid.              |



## CANON DVODECIMVS.

*Utrum apparens luminarium coniunctio futura sit Ecliptica, seu cum luminis Solaris obscuratione.*

**C**ERTIOR Eclipsium Solarium regula defumitur à Lunæ apparenti latitudine ad tempus visibilis ☿, conferendo ipsam cum aggregato semidiametrorum Solis & Lunæ: nam si ipsa quidem latitudo visa per præcedentem Canonem explorata, fuerit minor quàm illud aggregatum, fiet dubio procul aliqua luminis Solaris defectio: sin æqualis, vel maior, Solare corpus ab obscuratione immune erit.

Vt in nostro exemplo supradicti Nouilunij anni 1614. die 3. Octobris, cuius medium apparens contingit ad horam 1. 3'. 38". p. m. collecta fuit visa latitudo ex præcedente Canone min. 13'. 49". Septentrionalis, & Lunæ semidiameter datur cum Anomalia Lunari æquata 16'. 47". Solis verò semidiameter cum Anomalia ☿ itidem datur 15'. 16". & aggregatum vtriusque semidiametri est 32'. 3". excedens Lunæ latitudinem, & proinde certò pater, hanc synodum esse Eclipticam.

## CANON TERTIVSDECIMVS.

*Magnitudinem Solaris deliquij cognoscere.*

**A**D eundem ferè modum indagantur digiti Ecliptici in Solari obscuratione, perinde, ac in Lunari. Nam sit ingressus in Tabulam Digitorum seu Punctorum Eclipticorum, quæ habetur in nostris Tabulis Secundorum Mobilium, cum excessu summæ semidiametrorum Solis & Lunæ, qui relinquitur ex subtractione apparentis latitudinis Lunæ ab ea, & cum diametro Solis apparente: nam ex area Tabulæ eliciuntur digiti obscurationis.

Vt in eodem nostro exemplo, cum sit aggregatum semidiametrorum luminarium 32'. 3". ab illo auferendo visam Lunæ latitudinem 13'. 49".

relinquitur excessus dictæ summæ 18'. 14". qui in fronte dictæ Tabulæ adinuentus, & à latere sinistro diametrum Solis obscurando 30'. 32". patet in area digiti 7. 11. huius obscurationis.

## CANON QVARTVS DECIMVS.

*Scrupula Incidentiæ in Solari Eclipsi manifestare, ex quibus tempus occultationis, & emerfionis colligitur.*

**I**DEM est hic Canon cum 86. nostrarum Tabularum Secundorum Mobilium, qui docet inuenire Scrupula Incidentiæ ope illius tabellæ, cui titulus est, Scrupulorum Incidentiæ, seu casus in Eclipsi Solis. In qua comperienda est frontaliter summa scrupulorum semidiametri Solis & Lunæ, & à latere visa Lunæ latitudo, vt in area habeantur ipsa Incidentiæ scrupula.

Vt in eodem nostro exemplo, adinueniendo aggregatum semidiametrorum Solis & Lunæ  $32'. 3''$ . in fronte, & à sinistro latere visam latitudinem  $13'. 49''$ . dabuntur in area scrupula Incidentiæ  $28'. 48''$ .

Vt autem cognosci queat tempus Incidentiæ, quod numeratur ab initio ad medium ipsius Eclipsis, opus est prius explorare motum Lunæ horarium apparentem ante ipsius Eclipsis medium, ad eundem scilicet modum, sicut præcepimus superius Canone decimo, per quem horarium motum distribuenda sunt dicta Incidentiæ scrupula per Tabulam verificationis  $\odot$ , vt prodeat tempus Incidentiæ ab initio ad medium Eclipsis præterlabens. Pariter quoque cognoscendus est horarius  $\odot$

motus apparens à  $\odot$  post Eclipsis medium, vt per illum

distribuuntur eadem Incidentiæ scrupula, ad venandum tempus emerfionis, seu recuperationis

luminis Solaris, quod à medio ad Eclipsis

finem decurrit. Sic igitur

stabit exemplum inuentio-

nis vtriusque hora-

rij motus ap-

paren-

tis.



| H. i. ante ☿ |    |    |    | H. i. post ☿ |    |    |    |   |
|--------------|----|----|----|--------------|----|----|----|---|
| S            | G  | i  | '' | S            | G  | i  | '' |   |
| 6            | 9  | 55 | 15 | 6            | 10 | 0  | 11 | Verus locus ☿                             |
| 6            | 13 | 24 | 33 | 6            | 14 | 30 | 25 | Longitudo ☿ ab Aequinoctio.               |
| 4            | 5  | 11 | 11 | 4            | 6  | 16 | 31 | Anomalia ☿                                |
|              | 4  | 8  | 9  |              | 4  | 4  | 55 | Aequatio Epicyclica S.                    |
| 4            | 1  | 3  | 2  | 4            | 2  | 11 | 36 | Anomalia ☿ æquata.                        |
| 6            | 9  | 16 | 24 | 6            | 10 | 25 | 30 | Longitudo ☿ æquata.                       |
| 6            | 9  | 55 | 15 | 6            | 10 | 0  | 11 | Verus locus ☿                             |
| 11           | 29 | 21 | 9  | 0            | 0  | 25 | 19 | Distantia ☿ à ☿                           |
| 5            | 29 | 21 | 9  |              |    |    |    | Distantia ☿ à ☿ opposito.                 |
|              |    | 1  | 49 | S            |    | 1  | 11 | Aequatio Eccentricitatis A.               |
| 6            | 9  | 14 | 35 | 6            | 10 | 26 | 41 | Verus locus ☿                             |
|              | H  |    |    |              | 11 |    |    |   |
|              |    |    |    |              | 11 |    |    |   |
| 12           | 36 | 28 |    | 12           | 36 | 45 |    | Horæ cum loco ☿ in Tabul. domorum         |
| 0            | 3  | 38 |    | 2            | 3  | 38 |    | horæ p. m.                                |
| 12           | 40 | 6  |    | 14           | 40 | 23 |    | Aggregatum, Vnde colligitur               |
| S            | G  | i  | '' | S            | G  | i  | '' |   |
| 79           | 19 |    |    | 70           | 14 | 5  |    | Punctum Eclipticæ exoriens.               |
| 79           | 24 |    |    | 85           | 55 |    |    | Distantia ☿ ab ortu vel occasu.           |
| 39           | 49 |    |    | 33           | 52 |    |    | Angulus Eclipticæ & Horizontis.           |
| 39           | 0  |    |    | 33           | 46 |    |    | Altitudo Solis.                           |
| 55           | 48 |    |    | 55           | 48 |    |    | Distantia ☿ à terra in semidiam.          |
|              | 2  | 15 |    |              | 2  | 24 |    | Parallaxis ☿ in verticali.                |
|              | 48 | 26 |    |              | 51 | 43 |    | Parallaxis ☿ in verticali.                |
|              | 46 | 11 |    |              | 49 | 19 |    | Parallaxis ☿ à ☿ in verticali.            |
| 81           | 18 |    |    | 87           | 16 |    |    | Angulus Eclipticæ cum verticali.          |
|              | 6  | 59 |    |              | 2  | 21 |    | Parallaxis longitudinis ☿ à ☿             |
| 6            | 9  | 14 | 35 | 6            | 10 | 26 | 41 | Verus Lunæ locus addendus.                |
| 6            | 9  | 21 | 34 | 6            | 10 | 28 | 2  | Locus ☿ apparens.                         |
| 6            | 9  | 57 | 43 | 6            | 9  | 57 | 43 | Locus ☿ apparens ad medium Eclipsis.      |
| 0            | 36 | 9  |    | 0            | 30 | 19 |    | Diff. utriusque .i. appar. motus ☿ horar. |
|              | 2  | 28 |    |              | 2  | 28 |    | Motus horarius Solis auferendus.          |
| 33           | 41 |    |    | 0            | 27 | 51 |    | Motus Lunæ horarius apparens à Sole.      |

Iam igitur inuento hoc horario motu Lunæ à Sole apparente  $33'.41''$ , ante Eclipsis medium, in fronte Tabulæ verificationis coniunctionum luminarium, colligo cum scrupulis  $28'.48''$ . Incidentiæ à latere, Tempus Incidentiæ hor.  $0.51'.18''$ , à principio scilicet ad finem Eclipsis, ut sit initium ad horam  $0.15'.36''$ , à meridie.

Pariter quoque obscurando motum horarium Lunæ à Sole apparentem  $27'.51''$ , post Eclipsis medium, in fronte eiusdem Tabellæ, & Scrupula Incidentiæ à latere, offertur in area tempus emersionis hor.  $1.2'.3''$ , quod scilicet percurrit à medio Eclipsis usque ad finem, qui erit ad horam  $2.8'.54''$ , à meridie. Quare totius Eclipsis perduratio erit hor.  $1.53'.21''$ .

### CANON QVINTVS DECIMVS.

*Latitudinem ☾ apparentem, seu visam, tam ad initium, quam ad finem Eclipsis definire, atque Typum ipsius Solaris obscuracionis delineare.*

**C**VM sit necessarium cognoscere Argumentum latitudinis Lunæ ad medium Eclipsis, quod visæ latitudini, non autem veræ, correspondet; idcirco recurrendum est ad Tabulam latitudinis Lunæ, quæ habetur supra pag. 156. huius voluminis, quærendo in area primæ columnæ visam Lunæ latitudinem, nam patebit à latere sinistro gradus, & in fronte signum, vel à latere dextro gradus, & in calce signum ipsius argumenti latitudinis, quod paucis aliquot gradibus differt ab argumento latitudinis cum quo ad medium Eclipsis collegisti veram ☾ latitudinem, ut in hoc aberrare non possis.

Vt in nostro exemplo, cum sit argumentum latitudinis ad medium Eclipsis signorum  $5$ . graduum  $23.52'.42''$ . per quod fuit accepta veræ ☾ latitudo  $31'.46''$ . Septentrionalis; & cum ex subtractione huius latitudinis a parallaxi ☾ in latitudinem, sit relicta apparens latitudo  $13'.49''$ . Meridionalis hanc quærendo areatim in prima columna, ex qua semper colligitur Lunæ latitudo in coniunctione & oppositione; video pertinere ad signa  $6$ . gradus  $2.39'.24''$ .

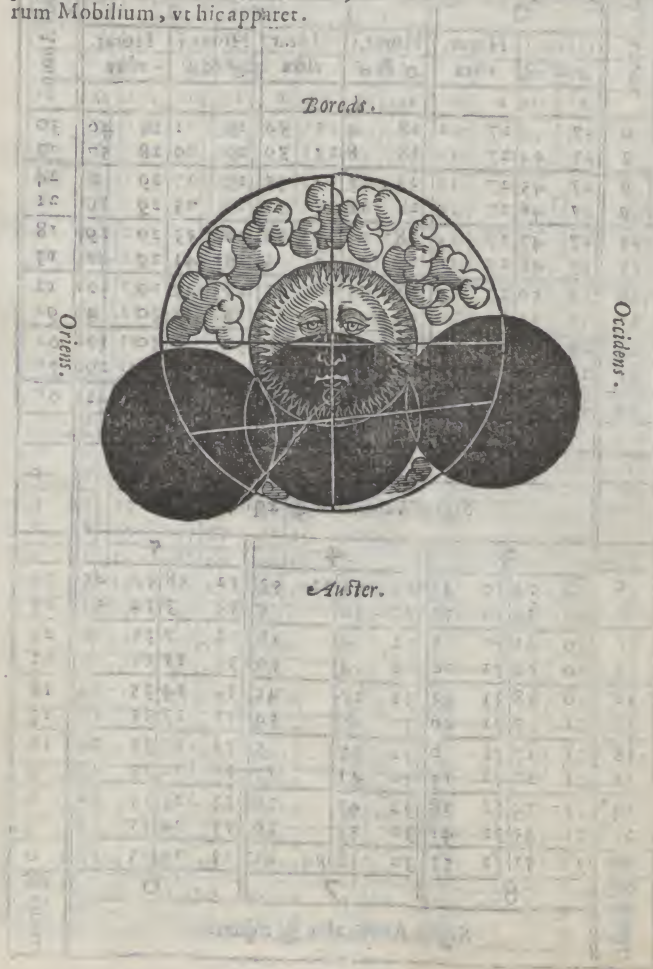
Ab hoc inuento Argumento latitudinis Lunæ respondente visæ latitudini Lunæ ad medium Eclipsis, auferantur Incidentiæ Scrupula, quæ Canone quartodecimo explorasti, quæ sunt in nostro exemplo  $28'.48''$ . relinquetur Argumentum latitudinis Lunæ ad Eclipsis initium signorum  $6.2.10'.36''$ . indicans Lunæ latitudinem graduum  $0.11'.22''$ . Meridiani ad initium.

Tandem verò eidem Argumento signorum  $6$ . graduum  $2.39'.24''$ . addendo eadem Incidentiæ Scrupula  $28'.48''$ . prodit Argumentum latitudinis



itudinis ☉ ad finem Eclipsis signorum 6. graduum 3. 8'. 12". ex quo depromitur latitudo ☉ ad finem graduum 0. 16'. 18". itidem meridiani.

Ex hac Lunæ latitudine ad initium, medium, & finem Eclipsis, atque ex apparentibus Solis & Lunæ diametris conformatur Typus Eclipsos huius Solaris, iuxta Canonem 90. nostrarum Tabularum Secundorum Mobilium, ut hic apparet.



arente 33'.  
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Tabula motus horarij ☿ & ♄ in ♊ & ♋, & simul dimidij diei  
ante & post.

| Gradius Anom.              | Signa Anomalix ☿ coequata. |    |              |    |                   |    |              |    |                   |    |              |    | Gradius Anom. |
|----------------------------|----------------------------|----|--------------|----|-------------------|----|--------------|----|-------------------|----|--------------|----|---------------|
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|                            | Horar. i<br>♊ & ♋          |    | Horar. vltra |    | Horar. i<br>♊ & ♋ |    | Horar. vltra |    | Horar. i<br>♊ & ♋ |    | Horar. vltra |    |               |
|                            | i                          | ii | i            | ii | i                 | ii | i            | ii | i                 | ii | i            | ii |               |
|                            | 0                          | 27 | 43           | 27 | 12                | 28 | 4            | 27 | 34                | 29 | 1            | 28 |               |
| 3                          | 27                         | 44 | 27           | 12 | 28                | 8  | 27           | 39 | 29                | 9  | 28           | 57 | 27            |
| 6                          | 27                         | 45 | 27           | 13 | 28                | 13 | 27           | 45 | 29                | 17 | 29           | 8  | 24            |
| 9                          | 27                         | 46 | 27           | 14 | 28                | 18 | 27           | 51 | 29                | 25 | 29           | 19 | 21            |
| 12                         | 27                         | 47 | 27           | 15 | 28                | 23 | 27           | 58 | 29                | 33 | 29           | 29 | 18            |
| 15                         | 27                         | 48 | 27           | 16 | 28                | 29 | 28           | 5  | 29                | 41 | 29           | 41 | 15            |
| 18                         | 27                         | 50 | 27           | 19 | 28                | 35 | 28           | 12 | 29                | 49 | 29           | 52 | 12            |
| 21                         | 27                         | 53 | 27           | 22 | 28                | 41 | 28           | 20 | 29                | 58 | 30           | 4  | 9             |
| 24                         | 27                         | 57 | 27           | 26 | 28                | 47 | 28           | 29 | 30                | 6  | 30           | 17 | 6             |
| 27                         | 28                         | 0  | 27           | 30 | 28                | 54 | 28           | 38 | 30                | 15 | 30           | 29 | 3             |
| 30                         | 28                         | 4  | 27           | 34 | 29                | 1  | 28           | 46 | 30                | 24 | 30           | 42 | 0             |
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| Signa Anomalix ♄ coequata. |                            |    |              |    |                   |    |              |    |                   |    |              |    |               |
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Tabula Semidiameterum ☉, ☌, & umbra terræ, ac distantia ☉  
à terra in Semidiametris terræ.

| Anoma-<br>lia Solis<br>& Lunę | S G | Semi-<br>diameter ☉ |    | Dist. ☉<br>à terra i<br>Semid.<br>terræ | Semid.<br>☉ plenę<br>& nouę | Semid.<br>umbra<br>terræ |    | Varia-<br>tio um-<br>bræ | Anoma-<br>lia Solis<br>& Lunę |
|-------------------------------|-----|---------------------|----|---|-----------------------------|--------------------------|----|--------------------------|-------------------------------|
|                               |     | I                   | II |   |                             | I                        | II |                          |                               |
|                               |     | 15                  | 0  | 58                                      | 8                           | 15                       | 15 | 43                       | 0                             |
|                               |     | 15                  | 0  | 58                                      | 8                           | 15                       | 15 | 43                       | 0                             |
|                               |     | 15                  | 0  | 58                                      | 8                           | 15                       | 15 | 43                       | 1                             |
|                               |     | 15                  | 0  | 58                                      | 7                           | 15                       | 16 | 43                       | 1                             |
|                               |     | 15                  | 1  | 58                                      | 7                           | 15                       | 16 | 43                       | 2                             |
|                               |     | 15                  | 1  | 58                                      | 6                           | 15                       | 17 | 43                       | 3                             |
|                               |     | 15                  | 1  | 58                                      | 5                           | 15                       | 18 | 43                       | 5                             |
|                               |     | 15                  | 1  | 58                                      | 4                           | 15                       | 19 | 43                       | 7                             |
|                               |     | 15                  | 2  | 58                                      | 2                           | 15                       | 21 | 43                       | 9                             |
|                               |     | 15                  | 2  | 58                                      | 0                           | 15                       | 22 | 43                       | 11                            |
|                               |     | 15                  | 2  | 57                                      | 58                          | 15                       | 24 | 43                       | 14                            |
|                               |     | 15                  | 3  | 57                                      | 56                          | 15                       | 26 | 43                       | 16                            |
|                               |     | 15                  | 3  | 57                                      | 54                          | 15                       | 28 | 43                       | 19                            |
|                               |     | 15                  | 4  | 57                                      | 51                          | 15                       | 30 | 43                       | 22                            |
|                               |     | 15                  | 4  | 57                                      | 49                          | 15                       | 32 | 43                       | 25                            |
|                               |     | 15                  | 5  | 57                                      | 46                          | 15                       | 35 | 43                       | 29                            |
|                               |     | 15                  | 5  | 57                                      | 43                          | 15                       | 37 | 43                       | 33                            |
|                               |     | 15                  | 6  | 57                                      | 40                          | 15                       | 40 | 43                       | 37                            |
|                               |     | 15                  | 6  | 57                                      | 36                          | 15                       | 42 | 43                       | 41                            |
|                               |     | 15                  | 7  | 57                                      | 33                          | 15                       | 45 | 43                       | 45                            |
|                               |     | 15                  | 7  | 57                                      | 29                          | 15                       | 47 | 43                       | 49                            |
|                               |     | 15                  | 8  | 57                                      | 25                          | 15                       | 50 | 43                       | 53                            |
|                               |     | 15                  | 9  | 57                                      | 21                          | 15                       | 53 | 43                       | 58                            |
|                               |     | 15                  | 9  | 57                                      | 17                          | 15                       | 56 | 44                       | 3                             |
|                               |     | 15                  | 10 | 57                                      | 12                          | 15                       | 59 | 44                       | 9                             |
|                               |     | 15                  | 11 | 57                                      | 8                           | 16                       | 2  | 44                       | 14                            |
|                               |     | 15                  | 12 | 57                                      | 3                           | 16                       | 5  | 44                       | 20                            |
|                               |     | 15                  | 12 | 56                                      | 58                          | 16                       | 8  | 44                       | 25                            |
|                               |     | 15                  | 13 | 56                                      | 53                          | 16                       | 11 | 44                       | 31                            |
|                               |     | 15                  | 14 | 56                                      | 48                          | 16                       | 14 | 44                       | 37                            |
|                               |     | 15                  | 15 | 56                                      | 43                          | 16                       | 17 | 44                       | 43                            |

Gradus Anom.

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Tabula Semidiametrorum ☉, ☿, & umbræ terræ, ac distantia ☉  
à terra in Semidiametris terræ.

| Anoma-<br>lia Solis<br>& Lunę |    | Semi-<br>diami-<br>ter ☉ |    | Dist. ☉<br>à terra i<br>Semid. |    | Semid.<br>☉ plenę<br>& nouę |    | Semid.<br>umbræ<br>terræ |    | Varia-<br>tio um-<br>bræ |   | Anoma-<br>lia Solis<br>& Lunę |    |
|-------------------------------|----|--------------------------|----|--------------------------------|----|-----------------------------|----|--------------------------|----|--------------------------|---|-------------------------------|----|
| S                             | G  | I                        | II | Sem. I                         | I  | II                          | I  | II                       | II | S                        | G | S                             | G  |
| 3                             | 0  | 15                       | 15 | 56                             | 43 | 16                          | 17 | 44                       | 43 | 17                       |   | 9                             | 0  |
| 3                             | 3  | 15                       | 15 | 56                             | 38 | 16                          | 20 | 44                       | 49 | 17                       |   | 8                             | 27 |
| 3                             | 6  | 15                       | 16 | 56                             | 33 | 16                          | 23 | 44                       | 55 | 18                       |   | 8                             | 24 |
| 3                             | 9  | 15                       | 17 | 56                             | 28 | 16                          | 26 | 45                       | 1  | 19                       |   | 8                             | 21 |
| 3                             | 12 | 15                       | 17 | 56                             | 22 | 16                          | 29 | 45                       | 7  | 20                       |   | 8                             | 18 |
| 3                             | 15 | 15                       | 18 | 56                             | 17 | 16                          | 32 | 45                       | 13 | 20                       |   | 8                             | 15 |
| 3                             | 18 | 15                       | 19 | 56                             | 12 | 16                          | 35 | 45                       | 19 | 21                       |   | 8                             | 12 |
| 3                             | 21 | 15                       | 20 | 56                             | 7  | 16                          | 38 | 45                       | 25 | 22                       |   | 8                             | 9  |
| 3                             | 24 | 15                       | 20 | 56                             | 1  | 16                          | 41 | 45                       | 31 | 23                       |   | 8                             | 6  |
| 3                             | 27 | 15                       | 21 | 55                             | 56 | 16                          | 43 | 45                       | 38 | 23                       |   | 8                             | 3  |
| 4                             | 0  | 15                       | 21 | 55                             | 51 | 16                          | 46 | 45                       | 44 | 24                       |   | 8                             | 0  |
| 4                             | 3  | 15                       | 22 | 55                             | 46 | 16                          | 48 | 45                       | 50 | 25                       |   | 7                             | 27 |
| 4                             | 6  | 15                       | 23 | 55                             | 41 | 16                          | 51 | 45                       | 56 | 25                       |   | 7                             | 24 |
| 4                             | 9  | 15                       | 24 | 55                             | 36 | 16                          | 53 | 46                       | 2  | 25                       |   | 7                             | 21 |
| 4                             | 12 | 15                       | 24 | 55                             | 32 | 16                          | 56 | 46                       | 7  | 26                       |   | 7                             | 18 |
| 4                             | 15 | 15                       | 25 | 55                             | 27 | 16                          | 58 | 46                       | 12 | 26                       |   | 7                             | 15 |
| 4                             | 18 | 15                       | 25 | 55                             | 23 | 17                          | 1  | 46                       | 17 | 26                       |   | 7                             | 12 |
| 4                             | 21 | 15                       | 26 | 55                             | 19 | 17                          | 3  | 46                       | 22 | 27                       |   | 7                             | 9  |
| 4                             | 24 | 15                       | 26 | 55                             | 15 | 17                          | 5  | 46                       | 27 | 27                       |   | 7                             | 6  |
| 4                             | 27 | 15                       | 27 | 55                             | 11 | 17                          | 7  | 46                       | 32 | 27                       |   | 7                             | 3  |
| 5                             | 0  | 15                       | 27 | 55                             | 8  | 17                          | 9  | 46                       | 36 | 27                       |   | 7                             | 0  |
| 5                             | 3  | 15                       | 28 | 55                             | 5  | 17                          | 10 | 46                       | 40 | 27                       |   | 6                             | 27 |
| 5                             | 6  | 15                       | 28 | 55                             | 3  | 17                          | 12 | 46                       | 44 | 27                       |   | 6                             | 24 |
| 5                             | 9  | 15                       | 28 | 55                             | 1  | 17                          | 13 | 46                       | 47 | 28                       |   | 6                             | 21 |
| 5                             | 12 | 15                       | 28 | 54                             | 59 | 17                          | 15 | 46                       | 50 | 28                       |   | 6                             | 18 |
| 5                             | 15 | 15                       | 29 | 54                             | 57 | 17                          | 16 | 46                       | 53 | 28                       |   | 6                             | 15 |
| 5                             | 18 | 15                       | 29 | 54                             | 55 | 17                          | 17 | 46                       | 55 | 28                       |   | 6                             | 12 |
| 5                             | 21 | 15                       | 29 | 54                             | 54 | 17                          | 18 | 46                       | 57 | 28                       |   | 6                             | 9  |
| 5                             | 24 | 15                       | 29 | 54                             | 53 | 17                          | 19 | 46                       | 58 | 28                       |   | 6                             | 6  |
| 5                             | 27 | 15                       | 30 | 54                             | 52 | 17                          | 20 | 46                       | 59 | 28                       |   | 6                             | 3  |
| 6                             | 0  | 15                       | 30 | 54                             | 52 | 17                          | 20 | 47                       | 0  | 28                       |   | 6                             | 0  |



Ac Tab. Secundorum Mobilium.

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Tabula Parallaxium Lunarium.

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| Altitude ☉ |    | Distantia ☉ à terra in Semidiametris terræ. |    |     |    |     |    |     |    |     |    |     |    |    |    |    |    |    |    |    |
|------------|----|---|----|-----|----|-----|----|-----|----|-----|----|-----|----|----|----|----|----|----|----|----|
|            |    | 52  | 53 | 54  | 55 | 56  | 57 | 58  | 59 | 60  | 61 |     |    |    |    |    |    |    |    |    |
| G          | °  | 1 "   |    | 1 " |    | 1 " |    | 1 " |    | 1 " |    | 1 " |    |    |    |    |    |    |    |    |
|            |    | 66  | 6  | 64  | 51 | 63  | 39 | 62  | 30 | 61  | 23 | 60  | 20 | 59 | 17 | 58 | 16 | 57 | 18 | 56 |
| 0          | 66 | 6   | 64 | 51  | 63 | 39  | 62 | 30  | 61 | 23  | 60 | 20  | 59 | 17 | 58 | 16 | 57 | 18 | 56 | 21 |
| 1          | 66 | 6   | 64 | 51  | 63 | 39  | 62 | 29  | 61 | 23  | 60 | 19  | 59 | 17 | 58 | 16 | 57 | 18 | 56 | 21 |
| 2          | 66 | 5   | 64 | 50  | 63 | 38  | 62 | 28  | 61 | 22  | 60 | 18  | 59 | 16 | 58 | 15 | 57 | 17 | 56 | 19 |
| 3          | 66 | 4   | 64 | 49  | 63 | 37  | 62 | 27  | 61 | 21  | 60 | 17  | 59 | 15 | 58 | 14 | 57 | 16 | 56 | 18 |
| 4          | 66 | 1   | 64 | 47  | 63 | 35  | 62 | 25  | 61 | 18  | 60 | 15  | 59 | 12 | 58 | 11 | 57 | 13 | 56 | 16 |
| 5          | 65 | 57  | 64 | 43  | 63 | 31  | 62 | 21  | 61 | 14  | 60 | 11  | 59 | 8  | 58 | 7  | 57 | 9  | 56 | 3  |
| 6          | 65 | 52  | 64 | 38  | 63 | 26  | 62 | 16  | 61 | 10  | 60 | 7   | 59 | 3  | 58 | 3  | 57 | 5  | 56 | 9  |
| 7          | 65 | 46  | 64 | 32  | 63 | 20  | 62 | 10  | 61 | 4   | 60 | 1   | 58 | 57 | 57 | 58 | 57 | 0  | 56 | 4  |
| 8          | 65 | 38  | 64 | 24  | 63 | 12  | 62 | 3   | 60 | 57  | 59 | 54  | 58 | 50 | 57 | 51 | 56 | 53 | 55 | 57 |
| 9          | 65 | 29  | 64 | 15  | 63 | 3   | 61 | 54  | 60 | 48  | 59 | 46  | 58 | 42 | 57 | 43 | 56 | 44 | 55 | 48 |
| 10         | 65 | 19  | 64 | 5   | 62 | 53  | 61 | 45  | 60 | 39  | 59 | 37  | 58 | 33 | 57 | 34 | 56 | 35 | 55 | 39 |
| 11         | 65 | 8   | 63 | 54  | 62 | 42  | 61 | 34  | 60 | 28  | 59 | 27  | 58 | 23 | 57 | 24 | 56 | 25 | 55 | 29 |
| 12         | 64 | 55  | 63 | 41  | 62 | 30  | 61 | 22  | 60 | 16  | 59 | 16  | 58 | 12 | 57 | 13 | 56 | 14 | 55 | 18 |
| 13         | 64 | 41  | 63 | 28  | 62 | 17  | 61 | 9   | 60 | 3   | 59 | 3   | 57 | 59 | 57 | 1  | 56 | 2  | 55 | 6  |
| 14         | 64 | 26  | 63 | 14  | 62 | 3   | 60 | 55  | 59 | 49  | 58 | 48  | 57 | 45 | 56 | 47 | 55 | 49 | 54 | 52 |
| 15         | 64 | 10  | 62 | 57  | 61 | 47  | 60 | 39  | 59 | 34  | 58 | 32  | 57 | 30 | 56 | 32 | 55 | 35 | 54 | 37 |
| 16         | 63 | 53  | 62 | 40  | 61 | 31  | 60 | 22  | 59 | 18  | 58 | 16  | 57 | 14 | 56 | 16 | 55 | 20 | 54 | 22 |
| 17         | 63 | 35  | 62 | 22  | 61 | 13  | 60 | 4   | 59 | 1   | 57 | 59  | 56 | 57 | 56 | 0  | 55 | 4  | 54 | 6  |
| 18         | 63 | 15  | 62 | 3   | 60 | 54  | 59 | 46  | 58 | 42  | 57 | 40  | 56 | 39 | 55 | 43 | 54 | 47 | 53 | 49 |
| 19         | 62 | 54  | 61 | 43  | 60 | 34  | 59 | 27  | 58 | 22  | 57 | 21  | 56 | 21 | 55 | 24 | 54 | 29 | 53 | 3  |
| 20         | 62 | 31  | 61 | 21  | 60 | 13  | 59 | 6   | 58 | 1   | 57 | 1   | 56 | 1  | 55 | 4  | 54 | 10 | 53 | 14 |
| 21         | 62 | 8   | 60 | 58  | 59 | 51  | 58 | 44  | 57 | 40  | 56 | 40  | 55 | 40 | 54 | 44 | 53 | 50 | 52 | 55 |
| 22         | 61 | 44  | 60 | 34  | 59 | 27  | 58 | 21  | 57 | 18  | 56 | 18  | 55 | 18 | 54 | 22 | 53 | 28 | 52 | 35 |
| 23         | 61 | 19  | 60 | 9   | 59 | 2   | 57 | 57  | 56 | 54  | 55 | 54  | 54 | 54 | 53 | 59 | 53 | 4  | 52 | 13 |
| 24         | 60 | 52  | 59 | 42  | 58 | 36  | 57 | 31  | 56 | 29  | 55 | 29  | 54 | 29 | 53 | 34 | 52 | 40 | 51 | 50 |
| 25         | 60 | 24  | 59 | 15  | 58 | 9   | 57 | 5   | 56 | 3   | 55 | 4   | 54 | 4  | 53 | 9  | 52 | 15 | 51 | 27 |
| 26         | 59 | 55  | 58 | 47  | 57 | 41  | 56 | 38  | 55 | 36  | 54 | 38  | 53 | 39 | 52 | 44 | 51 | 50 | 51 | 3  |
| 27         | 59 | 25  | 58 | 17  | 57 | 12  | 56 | 10  | 55 | 8   | 54 | 11  | 53 | 13 | 52 | 18 | 51 | 25 | 50 | 38 |
| 28         | 58 | 54  | 57 | 46  | 56 | 42  | 55 | 40  | 54 | 39  | 53 | 42  | 52 | 45 | 51 | 51 | 50 | 59 | 50 | 11 |
| 29         | 58 | 22  | 57 | 14  | 56 | 11  | 55 | 9   | 54 | 9   | 53 | 12  | 52 | 16 | 51 | 23 | 50 | 32 | 49 | 43 |
| 30         | 57 | 48  | 56 | 42  | 55 | 39  | 54 | 37  | 53 | 38  | 52 | 42  | 51 | 47 | 50 | 54 | 50 | 5  | 49 | 13 |

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| Altitudo<br>☾ | Distantia ☾ à terra in semidiametris terræ. |       |       |       |       |       |       |       |       |       |     |
|---------------|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|               | 52  | 53    | 54    | 55    | 56    | 57    | 58    | 59    | 60    | 61    |     |
| G             | " "   | " "   | " "   | " "   | " "   | " "   | " "   | " "   | " "   | " "   | " " |
| 30            | 57 48                                       | 56 42 | 55 39 | 54 37 | 53 38 | 52 42 | 51 47 | 50 54 | 50 5  | 49 13 |     |
| 31            | 57 13                                       | 56 9  | 55 6  | 54 4  | 53 6  | 52 10 | 51 16 | 50 24 | 49 37 | 48 43 |     |
| 32            | 56 38                                       | 55 34 | 54 32 | 53 30 | 52 33 | 51 37 | 50 44 | 49 52 | 49 7  | 48 13 |     |
| 33            | 56 2  | 54 58 | 53 57 | 52 55 | 51 59 | 51 4  | 50 10 | 49 19 | 48 34 | 47 42 |     |
| 34            | 55 25                                       | 54 21 | 53 21 | 52 20 | 51 24 | 50 30 | 49 35 | 48 46 | 48 0  | 47 10 |     |
| 35            | 54 46                                       | 53 43 | 52 43 | 51 44 | 50 48 | 49 55 | 48 59 | 48 12 | 47 25 | 46 37 |     |
| 36            | 54 5  | 53 4  | 52 4  | 51 7  | 50 11 | 49 18 | 48 22 | 47 37 | 46 50 | 46 2  |     |
| 37            | 53 24                                       | 52 24 | 51 24 | 50 29 | 49 33 | 48 41 | 47 46 | 47 1  | 46 14 | 45 27 |     |
| 38            | 52 42                                       | 51 43 | 50 44 | 49 49 | 48 54 | 48 3  | 47 9  | 46 24 | 45 38 | 44 51 |     |
| 39            | 52 0  | 51 1  | 50 3  | 49 8  | 48 15 | 47 24 | 46 31 | 45 46 | 45 0  | 44 15 |     |
| 40            | 51 17                                       | 50 18 | 49 21 | 48 27 | 47 35 | 46 44 | 45 53 | 45 8  | 44 22 | 43 38 |     |
| 41            | 50 32                                       | 49 34 | 48 38 | 47 45 | 46 53 | 46 3  | 45 14 | 44 28 | 43 43 | 43 0  |     |
| 42            | 49 46                                       | 48 49 | 47 54 | 47 2  | 46 10 | 45 21 | 44 34 | 43 47 | 43 4  | 42 21 |     |
| 43            | 48 59                                       | 48 3  | 47 9  | 46 18 | 45 27 | 44 38 | 43 52 | 43 6  | 42 24 | 41 41 |     |
| 44            | 48 11                                       | 47 16 | 46 23 | 45 33 | 44 43 | 43 55 | 43 9  | 42 24 | 41 43 | 41 0  |     |
| 45            | 47 23                                       | 46 29 | 45 36 | 44 46 | 43 58 | 43 12 | 42 25 | 41 41 | 41 1  | 40 19 |     |
| 46            | 46 34                                       | 45 41 | 44 48 | 43 59 | 43 12 | 42 28 | 41 41 | 40 58 | 40 18 | 39 37 |     |
| 47            | 45 44                                       | 44 52 | 44 0  | 43 11 | 42 25 | 41 43 | 40 56 | 40 14 | 39 35 | 38 54 |     |
| 48            | 44 53                                       | 44 1  | 43 11 | 42 23 | 41 38 | 40 57 | 40 10 | 39 29 | 38 50 | 38 10 |     |
| 49            | 44 1  | 43 10 | 42 21 | 41 34 | 40 50 | 40 9  | 39 24 | 38 44 | 38 5  | 37 26 |     |
| 50            | 43 8  | 42 18 | 41 30 | 40 44 | 40 1  | 39 20 | 38 37 | 37 58 | 37 19 | 36 41 |     |
| 51            | 42 14                                       | 41 26 | 40 39 | 39 54 | 39 11 | 38 30 | 37 49 | 37 11 | 36 32 | 35 55 |     |
| 52            | 41 20                                       | 40 33 | 39 47 | 39 3  | 38 20 | 37 40 | 37 0  | 36 23 | 35 45 | 35 9  |     |
| 53            | 40 25                                       | 39 39 | 38 54 | 38 11 | 37 28 | 36 49 | 36 10 | 35 34 | 34 57 | 34 22 |     |
| 54            | 39 29                                       | 38 43 | 38 0  | 37 18 | 36 37 | 35 58 | 35 20 | 34 44 | 34 9  | 33 34 |     |
| 55            | 38 32                                       | 37 47 | 37 5  | 36 24 | 35 45 | 35 7  | 34 29 | 33 54 | 33 20 | 32 46 |     |
| 56            | 37 34                                       | 36 50 | 36 10 | 35 30 | 34 52 | 34 15 | 33 38 | 33 4  | 32 30 | 31 57 |     |
| 57            | 36 36                                       | 35 52 | 35 14 | 34 35 | 33 57 | 33 23 | 32 47 | 32 13 | 31 40 | 31 8  |     |
| 58            | 35 37                                       | 34 54 | 34 17 | 33 39 | 33 2  | 32 29 | 31 55 | 31 21 | 30 49 | 30 18 |     |
| 59            | 34 37                                       | 33 56 | 33 19 | 32 43 | 32 7  | 31 34 | 31 1  | 30 28 | 29 57 | 29 27 |     |
| 60            | 33 37                                       | 32 58 | 32 21 | 31 46 | 31 11 | 30 38 | 30 6  | 29 35 | 29 5  | 28 35 |     |



## Tabula Parallaxium Lunarium.

Distantia ☾ à terra in Semidiametris terræ.

|    |       | Distantia ☾ à terra in Semidiametris terræ . |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|-------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
|    |       | 52   |    | 53 |    | 54 |    | 55 |    | 56 |    | 57 |    | 58 |    | 59 |    | 60 |    | 61 |    |    |  |
|    |       | G  |    | I  |    | II |    | I  |    | II |    | I  |    | II |    | I  |    | II |    | I  |    | II |  |
| 0  | 61    | 60   | 33 | 37 | 32 | 58 | 32 | 21 | 31 | 46 | 31 | 11 | 30 | 38 | 30 | 6  | 29 | 35 | 29 | 5  | 28 | 35 |  |
| "  | "     | 61   | 32 | 36 | 31 | 58 | 31 | 22 | 30 | 48 | 30 | 14 | 29 | 42 | 29 | 11 | 28 | 41 | 28 | 12 | 27 | 43 |  |
| 5  | 49 13 | 62   | 31 | 34 | 30 | 58 | 30 | 23 | 29 | 49 | 29 | 17 | 28 | 46 | 28 | 16 | 27 | 47 | 27 | 19 | 26 | 51 |  |
| 37 | 48 43 | 63   | 30 | 31 | 29 | 57 | 29 | 23 | 28 | 50 | 28 | 19 | 27 | 49 | 27 | 20 | 26 | 52 | 26 | 25 | 25 | 58 |  |
| 7  | 48 13 | 64   | 29 | 29 | 28 | 56 | 28 | 23 | 27 | 50 | 27 | 21 | 26 | 52 | 26 | 24 | 25 | 57 | 25 | 31 | 25 | 5  |  |
| 34 | 47 42 | 65   | 28 | 26 | 27 | 54 | 27 | 22 | 26 | 50 | 26 | 22 | 25 | 54 | 25 | 27 | 25 | 1  | 24 | 36 | 24 | 11 |  |
| 0  | 47 10 | 66   | 27 | 22 | 26 | 51 | 26 | 21 | 25 | 50 | 25 | 23 | 24 | 56 | 24 | 29 | 24 | 4  | 23 | 40 | 23 | 17 |  |
| 25 | 46 37 | 67   | 26 | 18 | 25 | 48 | 25 | 19 | 24 | 50 | 24 | 23 | 23 | 57 | 23 | 32 | 23 | 7  | 22 | 44 | 22 | 22 |  |
| 50 | 46 2  | 68   | 25 | 13 | 24 | 44 | 24 | 16 | 49 | 23 | 23 | 22 | 22 | 58 | 22 | 34 | 22 | 10 | 21 | 48 | 21 | 27 |  |
| 14 | 45 27 | 69   | 24 | 8  | 23 | 40 | 23 | 13 | 48 | 22 | 22 | 21 | 59 | 21 | 36 | 21 | 13 | 20 | 52 | 20 | 31 |    |  |
| 38 | 44 51 | 70   | 23 | 2  | 22 | 35 | 22 | 10 | 46 | 21 | 21 | 20 | 59 | 20 | 37 | 20 | 15 | 19 | 55 | 19 | 35 |    |  |
| 0  | 44 15 | 71   | 21 | 56 | 21 | 30 | 21 | 6  | 43 | 20 | 20 | 19 | 59 | 19 | 38 | 19 | 17 | 18 | 58 | 18 | 39 |    |  |
| 22 | 43 38 | 72   | 20 | 49 | 20 | 25 | 20 | 2  | 40 | 19 | 19 | 18 | 58 | 18 | 39 | 18 | 18 | 18 | 0  | 17 | 42 |    |  |
| 43 | 43 0  | 73   | 19 | 41 | 19 | 19 | 18 | 58 | 36 | 18 | 18 | 17 | 57 | 17 | 38 | 17 | 19 | 17 | 2  | 16 | 45 |    |  |
| 4  | 42 21 | 74   | 18 | 32 | 18 | 13 | 17 | 54 | 32 | 17 | 16 | 16 | 55 | 16 | 37 | 16 | 20 | 16 | 4  | 15 | 47 |    |  |
| 24 | 41 41 | 75   | 17 | 24 | 17 | 6  | 16 | 49 | 28 | 16 | 13 | 15 | 53 | 15 | 36 | 15 | 20 | 15 | 5  | 14 | 49 |    |  |
| 43 | 41 0  | 76   | 16 | 16 | 15 | 59 | 15 | 43 | 24 | 15 | 10 | 14 | 50 | 14 | 35 | 14 | 20 | 14 | 7  | 13 | 51 |    |  |
| 1  | 40 19 | 77   | 15 | 8  | 14 | 52 | 14 | 36 | 19 | 14 | 6  | 13 | 47 | 13 | 34 | 13 | 20 | 13 | 8  | 12 | 53 |    |  |
| 18 | 39 37 | 78   | 14 | 0  | 13 | 45 | 13 | 29 | 14 | 13 | 2  | 12 | 44 | 12 | 33 | 12 | 20 | 12 | 9  | 11 | 55 |    |  |
| 35 | 38 54 | 79   | 12 | 51 | 12 | 37 | 12 | 23 | 9  | 11 | 57 | 11 | 42 | 11 | 31 | 11 | 19 | 11 | 9  | 10 | 56 |    |  |
| 50 | 38 10 | 80   | 11 | 42 | 11 | 29 | 11 | 16 | 4  | 10 | 52 | 10 | 39 | 10 | 29 | 10 | 18 | 10 | 8  | 9  | 57 |    |  |
| 5  | 37 26 | 81   | 10 | 33 | 10 | 21 | 10 | 9  | 58 | 9  | 47 | 9  | 36 | 9  | 26 | 9  | 17 | 9  | 8  | 8  | 58 |    |  |
| 19 | 36 41 | 82   | 9  | 23 | 9  | 13 | 9  | 2  | 53 | 8  | 42 | 8  | 33 | 8  | 24 | 8  | 15 | 8  | 7  | 7  | 59 |    |  |
| 32 | 35 55 | 83   | 8  | 13 | 8  | 5  | 7  | 55 | 48 | 7  | 37 | 7  | 29 | 7  | 21 | 7  | 13 | 7  | 7  | 7  | 0  |    |  |
| 45 | 35 9  | 84   | 7  | 3  | 6  | 57 | 6  | 48 | 42 | 6  | 32 | 6  | 25 | 6  | 18 | 6  | 11 | 6  | 6  | 6  | 0  |    |  |
| 57 | 34 22 | 85   | 5  | 52 | 5  | 47 | 5  | 40 | 36 | 5  | 27 | 5  | 21 | 5  | 16 | 5  | 9  | 5  | 5  | 5  | 0  |    |  |
| 9  | 33 34 | 86   | 4  | 42 | 4  | 37 | 4  | 32 | 29 | 4  | 22 | 4  | 17 | 4  | 13 | 4  | 7  | 4  | 4  | 4  | 0  |    |  |
| 20 | 32 46 | 87   | 3  | 32 | 3  | 28 | 3  | 24 | 22 | 3  | 17 | 3  | 13 | 3  | 10 | 3  | 5  | 3  | 3  | 3  | 0  |    |  |
| 30 | 31 57 | 88   | 2  | 21 | 2  | 18 | 2  | 16 | 14 | 2  | 11 | 2  | 8  | 2  | 6  | 2  | 3  | 2  | 2  | 2  | 0  |    |  |
| 40 | 31 8  | 89   | 1  | 10 | 1  | 9  | 1  | 8  | 7  | 1  | 5  | 1  | 4  | 1  | 3  | 1  | 1  | 1  | 1  | 1  | 0  |    |  |
| 49 | 30 18 | 90   | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  |    |  |
| 57 | 29 27 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
| 5  | 28 35 |  |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |

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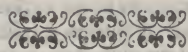
| Tabella di moltiplicazione |     |     |     |     |     |     |     |     |      |
|----------------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|
| 1                          | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   |
| 1                          | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10   |
| 2                          | 4   | 6   | 8   | 10  | 12  | 14  | 16  | 18  | 20   |
| 3                          | 6   | 9   | 12  | 15  | 18  | 21  | 24  | 27  | 30   |
| 4                          | 8   | 12  | 16  | 20  | 24  | 28  | 32  | 36  | 40   |
| 5                          | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50   |
| 6                          | 12  | 18  | 24  | 30  | 36  | 42  | 48  | 54  | 60   |
| 7                          | 14  | 21  | 28  | 35  | 42  | 49  | 56  | 63  | 70   |
| 8                          | 16  | 24  | 32  | 40  | 48  | 56  | 64  | 72  | 80   |
| 9                          | 18  | 27  | 36  | 45  | 54  | 63  | 72  | 81  | 90   |
| 10                         | 20  | 30  | 40  | 50  | 60  | 70  | 80  | 90  | 100  |
| 11                         | 22  | 33  | 44  | 55  | 66  | 77  | 88  | 99  | 110  |
| 12                         | 24  | 36  | 48  | 60  | 72  | 84  | 96  | 108 | 120  |
| 13                         | 26  | 39  | 52  | 65  | 78  | 91  | 104 | 117 | 130  |
| 14                         | 28  | 42  | 56  | 70  | 84  | 98  | 112 | 126 | 140  |
| 15                         | 30  | 45  | 60  | 75  | 90  | 105 | 120 | 135 | 150  |
| 16                         | 32  | 48  | 64  | 80  | 96  | 112 | 128 | 144 | 160  |
| 17                         | 34  | 51  | 68  | 85  | 102 | 119 | 136 | 153 | 170  |
| 18                         | 36  | 54  | 72  | 90  | 108 | 126 | 144 | 162 | 180  |
| 19                         | 38  | 57  | 76  | 95  | 114 | 133 | 152 | 171 | 190  |
| 20                         | 40  | 60  | 80  | 100 | 120 | 140 | 160 | 180 | 200  |
| 21                         | 42  | 63  | 84  | 105 | 126 | 147 | 168 | 189 | 210  |
| 22                         | 44  | 66  | 88  | 110 | 132 | 154 | 176 | 198 | 220  |
| 23                         | 46  | 69  | 92  | 115 | 138 | 161 | 184 | 207 | 230  |
| 24                         | 48  | 72  | 96  | 120 | 144 | 168 | 192 | 216 | 240  |
| 25                         | 50  | 75  | 100 | 125 | 150 | 175 | 200 | 225 | 250  |
| 26                         | 52  | 78  | 104 | 130 | 156 | 182 | 208 | 234 | 260  |
| 27                         | 54  | 81  | 108 | 135 | 162 | 189 | 216 | 243 | 270  |
| 28                         | 56  | 84  | 112 | 140 | 168 | 196 | 224 | 252 | 280  |
| 29                         | 58  | 87  | 116 | 145 | 174 | 203 | 232 | 261 | 290  |
| 30                         | 60  | 90  | 120 | 150 | 180 | 210 | 240 | 270 | 300  |
| 31                         | 62  | 93  | 124 | 155 | 186 | 217 | 248 | 279 | 310  |
| 32                         | 64  | 96  | 128 | 160 | 192 | 224 | 256 | 288 | 320  |
| 33                         | 66  | 99  | 132 | 165 | 198 | 231 | 264 | 297 | 330  |
| 34                         | 68  | 102 | 136 | 170 | 204 | 238 | 272 | 306 | 340  |
| 35                         | 70  | 105 | 140 | 175 | 210 | 245 | 280 | 315 | 350  |
| 36                         | 72  | 108 | 144 | 180 | 216 | 252 | 288 | 324 | 360  |
| 37                         | 74  | 111 | 148 | 185 | 222 | 259 | 296 | 333 | 370  |
| 38                         | 76  | 114 | 152 | 190 | 228 | 266 | 304 | 342 | 380  |
| 39                         | 78  | 117 | 156 | 195 | 234 | 273 | 312 | 351 | 390  |
| 40                         | 80  | 120 | 160 | 200 | 240 | 280 | 320 | 360 | 400  |
| 41                         | 82  | 123 | 164 | 205 | 246 | 287 | 328 | 369 | 410  |
| 42                         | 84  | 126 | 168 | 210 | 252 | 294 | 336 | 378 | 420  |
| 43                         | 86  | 129 | 172 | 215 | 258 | 301 | 344 | 387 | 430  |
| 44                         | 88  | 132 | 176 | 220 | 264 | 308 | 352 | 396 | 440  |
| 45                         | 90  | 135 | 180 | 225 | 270 | 315 | 360 | 405 | 450  |
| 46                         | 92  | 138 | 184 | 230 | 276 | 322 | 368 | 414 | 460  |
| 47                         | 94  | 141 | 188 | 235 | 282 | 329 | 376 | 423 | 470  |
| 48                         | 96  | 144 | 192 | 240 | 288 | 336 | 384 | 432 | 480  |
| 49                         | 98  | 147 | 196 | 245 | 294 | 343 | 392 | 441 | 490  |
| 50                         | 100 | 150 | 200 | 250 | 300 | 350 | 400 | 450 | 500  |
| 51                         | 102 | 153 | 204 | 255 | 306 | 357 | 408 | 459 | 510  |
| 52                         | 104 | 156 | 208 | 260 | 312 | 364 | 416 | 468 | 520  |
| 53                         | 106 | 159 | 212 | 265 | 318 | 371 | 424 | 477 | 530  |
| 54                         | 108 | 162 | 216 | 270 | 324 | 378 | 432 | 486 | 540  |
| 55                         | 110 | 165 | 220 | 275 | 330 | 385 | 440 | 495 | 550  |
| 56                         | 112 | 168 | 224 | 280 | 336 | 392 | 448 | 504 | 560  |
| 57                         | 114 | 171 | 228 | 285 | 342 | 399 | 456 | 513 | 570  |
| 58                         | 116 | 174 | 232 | 290 | 348 | 406 | 464 | 522 | 580  |
| 59                         | 118 | 177 | 236 | 295 | 354 | 413 | 472 | 531 | 590  |
| 60                         | 120 | 180 | 240 | 300 | 360 | 420 | 480 | 540 | 600  |
| 61                         | 122 | 183 | 244 | 305 | 366 | 427 | 488 | 549 | 610  |
| 62                         | 124 | 186 | 248 | 310 | 372 | 434 | 496 | 558 | 620  |
| 63                         | 126 | 189 | 252 | 315 | 378 | 441 | 504 | 567 | 630  |
| 64                         | 128 | 192 | 256 | 320 | 384 | 448 | 512 | 576 | 640  |
| 65                         | 130 | 195 | 260 | 325 | 390 | 455 | 520 | 585 | 650  |
| 66                         | 132 | 198 | 264 | 330 | 396 | 462 | 528 | 594 | 660  |
| 67                         | 134 | 201 | 268 | 335 | 402 | 469 | 536 | 603 | 670  |
| 68                         | 136 | 204 | 272 | 340 | 408 | 476 | 544 | 612 | 680  |
| 69                         | 138 | 207 | 276 | 345 | 414 | 483 | 552 | 621 | 690  |
| 70                         | 140 | 210 | 280 | 350 | 420 | 490 | 560 | 630 | 700  |
| 71                         | 142 | 213 | 284 | 355 | 426 | 497 | 568 | 639 | 710  |
| 72                         | 144 | 216 | 288 | 360 | 432 | 504 | 576 | 648 | 720  |
| 73                         | 146 | 219 | 292 | 365 | 438 | 511 | 584 | 657 | 730  |
| 74                         | 148 | 222 | 296 | 370 | 444 | 518 | 592 | 666 | 740  |
| 75                         | 150 | 225 | 300 | 375 | 450 | 525 | 600 | 675 | 750  |
| 76                         | 152 | 228 | 304 | 380 | 456 | 532 | 608 | 684 | 760  |
| 77                         | 154 | 231 | 308 | 385 | 462 | 539 | 616 | 693 | 770  |
| 78                         | 156 | 234 | 312 | 390 | 468 | 546 | 624 | 702 | 780  |
| 79                         | 158 | 237 | 316 | 395 | 474 | 553 | 632 | 711 | 790  |
| 80                         | 160 | 240 | 320 | 400 | 480 | 560 | 640 | 720 | 800  |
| 81                         | 162 | 243 | 324 | 405 | 486 | 567 | 648 | 729 | 810  |
| 82                         | 164 | 246 | 328 | 410 | 492 | 574 | 656 | 738 | 820  |
| 83                         | 166 | 249 | 332 | 415 | 498 | 581 | 664 | 747 | 830  |
| 84                         | 168 | 252 | 336 | 420 | 504 | 588 | 672 | 756 | 840  |
| 85                         | 170 | 255 | 340 | 425 | 510 | 595 | 680 | 765 | 850  |
| 86                         | 172 | 258 | 344 | 430 | 516 | 602 | 688 | 774 | 860  |
| 87                         | 174 | 261 | 348 | 435 | 522 | 609 | 696 | 783 | 870  |
| 88                         | 176 | 264 | 352 | 440 | 528 | 616 | 704 | 792 | 880  |
| 89                         | 178 | 267 | 356 | 445 | 534 | 623 | 712 | 801 | 890  |
| 90                         | 180 | 270 | 360 | 450 | 540 | 630 | 720 | 810 | 900  |
| 91                         | 182 | 273 | 364 | 455 | 546 | 637 | 728 | 819 | 910  |
| 92                         | 184 | 276 | 368 | 460 | 552 | 644 | 736 | 828 | 920  |
| 93                         | 186 | 279 | 372 | 465 | 558 | 651 | 744 | 837 | 930  |
| 94                         | 188 | 282 | 376 | 470 | 564 | 658 | 752 | 846 | 940  |
| 95                         | 190 | 285 | 380 | 475 | 570 | 665 | 760 | 855 | 950  |
| 96                         | 192 | 288 | 384 | 480 | 576 | 672 | 768 | 864 | 960  |
| 97                         | 194 | 291 | 388 | 485 | 582 | 679 | 776 | 873 | 970  |
| 98                         | 196 | 294 | 392 | 490 | 588 | 686 | 784 | 882 | 980  |
| 99                         | 198 | 297 | 396 | 495 | 594 | 693 | 792 | 891 | 990  |
| 100                        | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 | 1000 |





## DE MERIDIANORVM DIFFERENTIA,

Caput additum ab ipso Auctore, in quo  
ad Origanum responderetur.



COMODAVIMVS haece Tychonicas luminariũ,  
& Martis Tabulas ad Venetum Meridianum, obserua-  
ta nimirum subtractione motus vndecim minutis tem-  
poris congruente, quantum scilicet putant orientatio-  
rem esse Meridianũ Venetum Vraniburgico Meridia-  
no Huenæ Insulæ, ad quem ipse Tycho, suas condidit  
Tabulas, præstantes viri, qui Eclipses præteritorum annorum Venetijs  
& Patauij obseruarunt, præsertim verò doctissimus Simon Marius, & in  
motuum obseruatione accuratissimus ob familiaritatem, quam cum Ty-  
chone olim in Dania habuit: tamen ex auctoritate eiusdemmet Tycho-  
nis nulla deberet dari differentia inter iam dictos Meridianos, vt patet ex  
Epistola illius ad me conscripta, quæ habetur pagina 85. mearum Tabu-  
larũ Primi Mobilis. Doctissimus vir Iacobus Christmanus in sua Theo-  
ria Lunaris motus Tychonica anno 1611. edita, & mihi ex ipsius libe-  
ralitate communicata, putat Venetum Meridianum non congruere pro-  
ximè cum Vraniburgico de ipsius Tychonis mente, sed potius cum Me-  
ridiano Vandesburgico, cuius longitudo Tychone teste datur gr. 35. 35'.  
(ita enim corrigendum est erratum Typographicum dictæ Epistolæ, vbi  
est gr. 33. 85'. & non vt scribit Christmanus gr. 33. 45'.) ait enim ille, tran-  
scriptorem dictæ Epistolæ aberrasse, cum debuisset scribere, longitudinẽ  
Vraniburgi esse gr. 36. 45'. Vandesburgi gr. 33. 35'. atque eandem proxi-  
mè Venetiarum. An hoc sit verum ignoro, seruatur tamen penes me Epi-  
stola illa Melchioris Iostelij Mathematici Vittebergensis manu conscri-  
pta iussu Tychonis, qui eam propria manu subscripauit. Ceterum hæc  
inter

inter Venetum, & Vraniburgicum Meridianos differentia ad vndecim temporis minuta à me supposita, quæ sint horum locorum veræ longitudes ignoro, nec facile posse determinari puto. Enimverò si vera esset Vraniburgi longitudo Tychonica gr. 36. 45'. prodiret utique Venetiarum longitudo gr. 39. 30'. sicut Simon Marius & eius affectæ opinantur, quæ profectò nimis meo iudicio exuperat, cum à nemine, quod ego sciam, tanta longitudo Venetijs sit adscripta. Sed cum non constet, quo fundamento ipse Tycho statuerit dictam Vraniburgi longitudinem, an scilicet ex aliqua cælesti observatione, an potius Geographi cuiuspiam auctoritate perinuitus ei assentirem. Gerardus Mercator inter recentiores Geographos primus obtinens locum Huenæ Insulæ in Hellesponto Danico tribuit longitudinem gr. 35. 10'. hoc est paulò maiorem Venetiarum longitudine, quæ ab eodem datur gr. 34. 50'. Sed cum hic egregius vir plus iusto acceperit latitudinem Huenæ, nempe gr. 56. 38'. cum debeat esse gr. 55. 56'. ut fuit à Tychone exquisitissime observata: credibile etiam videtur, longitudes ab eodem Mercatore nimis auctas fuisse in his extremitatibus Europæ Borealibus, ubi circulorum parallelorum maior est proportio ad Aequinoctialem & ad circulum maximum, quàm eorum, qui minus ab Aequatore recedunt. Vnde in parallelo Huenæ vnus gradus longitudinis dat minuta 33. & semis, ferè maximi circuli, & proinde minus terræ spatium comprehendit, quàm in parallelo Veneto, ubi vnus gradus conficit 42. minuta maximi circuli, ac maius terræ spatium complectitur. Quare crederem potius ego, minorem esse longitudinem Vraniburgi illa Tychonica, quàm quòd Venetiarum longitudo sit gr. 39. & semis. Addo & hoc quoque quod datur terræ continuatio satis expedita, ac patens secundum genuinam terræ longitudinem, ab occasu scilicet ad ortum, ac proinde minus erroribus expositam, cum ab insulis, scilicet Canarijs per Hispaniam, Galliam, & Italiæ tractum progredimur ad Venetiarum urbem. Contra verò progrediendo ab iisdem insulis ad Daniæ Regnum Arctoi orbis diuertimus, admodum à recta terræ longitudine accedentes ad Austrum, ac continuo parallelus & climata mutantes, tot ac tam varijs maris lingulis occurrentibus. Itaque si vera esset Venetiarum longitudo gr. 34. 30'. quam ex probatiorum opinione in nostris Ephemeridibus damus, vel gr. 34. 50'. quam cum Mercatore in nostra Italiæ Geographia amplecti coacti fuimus, prodiret utique Vraniburgi longitudo gr. 31. 45'. vel potius gr. 32. 5'. Sed si quis mihi obijciat, nimis ipsam longitudinem me decurtasse, hoc est gradibus 4. cū min. 45. recedendo ab opinione eximij viri Tychonis Brahe: respondebo quod cum longitudes difficilimè possint ex observationibus inuestigari, in dubio positus minus esse inconueniens arbitror, concedere Vraniburgi longitudinem esse grad. 32. 5'. dum Veneta est gr. 34. 50'. quàm assentiri longitudini Venetiarum in gr. 39. 30'. dum statuitur Vraniburgica grad. 36. 45'. Nam ab hac Veneta longitudine



tudine parum discedit Reinoldus in Tabulis Prutenicis, statuens eam grad. 34. 15'. vt paulò infra patebit. Sic quoque Gemma Frisius astruit collocandam esse Venetiarum Urbem in gr. 34. cum semisse, in suo libello de vsu Globi terrestis, sicut etiam in libello de locorum describendorum ratione, vt videre est pag. 208. in Apiano correcto. Moletius item in suis Tabulis Gregorianis, eandem ponit Venetiarum longitudinem gr. 34. 30'. Petrus Pitatus, & alij auctores Itali, quæ sanè opinio media videtur esse inter duas extremas, videlicet illorum, qui ponunt Venetias in gr. 32. 30'. vt est Apianus primò impressus, quem sequitur Leouitius, & quidam alij, & illorum qui faciunt ipsam longitudinem grad. 36. 15'. vt patet in Apiano recognito, Mestlino, & alijs quibusdam. Sed quod attinet ad Vraniburgicam longitudinem, sciendum est, Origanum quoque eam minorem fecisse tribus gradibus; dum ponit differentiam temporis minorum 12. inter Vraniburgum, & Francofurtum ad Oderam, sublati enim gradibus tribus huic differentie congruentibus à longitudine Francofurti grad. 36. remanet Vraniburgi longitudo grad. 33. secundum ipsum Origanum, qui affirmat tantam adinuenisse differentiam ex obseruatione Eclipsos Solaris anni 1598. Præterea conferendo differentias meridianorum Gratij Stirie, & Tubingæ à meridiano Vraniburgi, quas doctissimi viri Keplerus, & Mestlinus adinuerunt, confirmabimus Vraniburgi longitudinem dari aliquanto minorem numeris Tycho-nicis. Cum enim Keplerus testetur se cognouisse differentiam temporis meridiani Gratij à meridiano Vraniburgi quinque Aequatoris graduum pag. 383. suæ Opticæ Astronomicæ ex obseruatione scilicet Solaris Eclipsos anni 1598. idè si à longitudine Gratij, quam Mercator facit grad. 38. 34'. detraxerimus quinque gradus, prodibit longitudo Vraniburgi gr. 33. 34' parum differens ab illa Origanii: tametsi non ignorem posse reuocari in dubium hanc differentiam quinque graduum inter dicta duo loca, cum idem Keplerus in eodemmet libro ponat interdum differentiam inter illa loca quatuor tantummodo graduum pagina 368. & interdum quatuor cum dimidio pagina 359. Quæ varietas arguit difficultatem huiusmodi obseruationis longitudinum. Pariter quoque cum Tubingæ assignetur à Mercatore longitudo gr. 30. 52'. cumque fuerit obseruata differentia meridiani ipsius à meridiano Vraniburgico ab ipso Mestlino gr. 2. 8'. teste Keplero in Optica Astronomica pag. 406. prodit idè Vraniburgi longitudo grad. 33. 0'. Sed ex differentia vnus gradus inter dictos meridianos, quam Keplerus facit pag. 403. prodit dictus Vraniburgicus meridianus grad. 31. 52'. tantummodo, & quæ proximè accedens longitudini, quam ego deduxi. Sed utcumque res sit, hoc tamen certum damus, nostras hæc Tabulas esse reductas ad meridianum orientaliorem Vraniburgico meridianum gradibus duobus cum min. 45. hoc est vndecim minutis temporis. Et si quispiam vti noluerit nostro ciuitatum catalogo in vltimis



timis Ephemeridibus impresso pro reductione temporis ad quemcumque meridianum, fruatur his nostris Tabulis iuxta suum arbitrium. Non enim negari potest, negotium hoc Geographicum esse intricatissimum, maximisque difficultatibus obnoxium ob incertitudinem longitudinum locorum, & auctorum intolerabilem discrepantiam. Quare superuacaneum nobis sicut & multis alijs visum fuit, Origanum ob meridianorum Veneti, Montis regij, & Francofurtensis differentias, tantum obstrepuisse, & tantis clamoribus, & conuitijs rem hanc adeo leuem exagitasse in editione præsertim postrema suarum Ephemeridum auctarum. Cui prolixæ Epistolæ si respondere in omnibus voluissim, ingentem scripturam me edere oportuisset cum maximo legentium tedio; quinpotius statueram nil amplius in mei defensionem respondere, confidens nimirum, & veritati meæ causæ, & ingenuitati studioforum rectè Astronomica intelligentium. At quia non omnes absque diligenti lectione, & collatione scriptorum Origani cum meis noscere queunt, Origanum ipsum plerumque extra propositum digredi, & dum vult ostendere se meas rationes solidè confutasse, sagit ille quidem omni conatu, illas ad alios sensus malitiosè traducere, ut videar dixisse, quæ non dixi, atque ut studiosorum sic offuscatorum assensum lucretur; neque interim abstinere ab iniurijs verbis, ab exagitationibus acerbissimis, & à conuitijs ereberrimis in me, ac lucubrationes meas, studens præcipuè sua quadam immodesta, ac nimis affectata loquacitate me cōfundere, & extra viam reducere ad respondendum. Quin etiam sæpè sæpius eadem pluribus in locis repetere non erubescit, ut videatur multa contra me dixisse. Idcirco non potui me continere, quin denuo ad has ejus nugas responderem; me tamen intra modestiæ limites quo ad fieri potest, continendū; ne quis meo silentio ab Origano me victum argueret. Quod tamen hac honesta denunciatione factum esse intelligo, ne in posterum quicquam respondere debeam.

Nostræ contentionis summam, certum est versari circa meridianorum differentias, hoc est circa longitudinis Montis regij Prussiae, Venetiariū, & Francofurti ad Oderam. Origanus enim mihi maximo crimini vertit, quod Ephemerides meas, ad Venetiariū meridianum supputauerim ad 50. minuta horæ, versus occasum à meridiano Montis regij remotum, & tamen eundem locum, in Catalogo meo priore 35. minutis distantem à Venetiariū meridianum constituerim, committens sic quindecim minutorum temporis errorem, quam cautelem non erubescit sexies ad minus verbosissimè repetere, tum in hac noua responsione ad meam Apologiam, tum etiam ubi de Meridianorum differentia agit. Contra verò & ego post allatam meam defensionem, Origanum ipsum peccasse ad sex minuta temporis asserui, dum differentiam sui meridiani Francofurtensis à meridiano Prutenicarum Tabularum obseruauit, ad 37. minuta, cum debuerit esse min. 43. stante scilicet Francofurti longitudine grad. 36. quam

Origanus



Origanus ex Apiano recognito accepit. In hac autem nostra contentione quis nostrum victoriam hactenus obtinuerit, aut posthac eam obtinurus sit, acquis lectoribus iudicandum relinquo. Hoc tamen non est obsecrum, neminem nostrum posse sperare magnum aliquem triumphum. Disceptatio enim est de re leuissima, & ut prouerbio dici solet, de lana caprina. Nam quid incertius locorum longitudinibus? ubi nulla dantur inuidæ demonstrationes, sed potius fallacissimæ coniecturæ ex chao varium & sæpe sapius repugnantium inter se Geographicarum descriptionum obortæ. Etsi non desint, qui paucas aliquas longitudes per apparentia cætus se comprobasse affirmant. Audiamus quæso Erasimum Reinoldum in Canonibus Prutenicis, ubi de meridianorum differentia tractat. Ceterum quod ad nostrum regionis, seu locorum canonem attinet fateor meo animo haud satisfactum esse, etsi sequutus sum eos, quorum sententiam hoc saltem tempore ceteris prætuli. Et paulò post subdit. Quis enim ex eruditis absque stomacho legit tantam Scriptorum in hoc genere discordiam? Inter Romanos & Norimbergam faciunt alij longitudinis differentiam 9. temporum, alij 8. alij 4. alij 3. tantum. Anconam & Romam in Italia collocat Ptolemæus sub eodem serè meridiano: at recentiores non solum à Ptolemæo, sed inter se plurimum discrepant, ut in exigua distantia, quæ pene citra cælestem observationem iudicari potest, sed desino recitare exempla dissensionum, quæ nimis multa sunt. Quid in hoc genere dicant Meßlinus, Braheus, & alij, videri potest apud ipsos auctores, qui omnes de incertitudine Geographica conqueruntur, sicut & ego feci in Canonibus meorum Secundorum Mobilium, & sicut etiam facit Origanus ipse, cuius formalia verba hæc leguntur in prior editione. Quo in Catalogo si error aliquis sese prodit, non eum mihi, sed Geographicæ imperfectioni imputari velim. Tanta enim inter auctores in locorum descriptionibus discordia occurrit, ut in nulla alia re maior deprehendatur. Et exigit Geographicæ restitutio non unius viri laborem, sed plurimum in diuersis locis degentium diligentes observationes, ut facta collatione tandem vera differentia meridianorum innotescat. Optimum verò est, unum aliquem Geographicæ auctorem, & eum probatum sequi, cum diuersi diuersis utantur principijs, unde locorum longitudes numerant, & alius maiorem, alius minorem loci longitudinem asserat, prout meridianum primum, vel ultra, vel intra insulas Fortunatas constituit. Et idem Origanus in postrema editione ait sic. Ipse enim ego affirmo in tanto auctorum, qui Geographica scripserunt, dissensu difficulter de meridianorum differentia certi quid constitui. Quibus sanè verbis Origanus apertè nostram iudicat controuersiam, hac enim Geographicæ circa longitudes incertitudine stante, nemo nostrum quicquam certi potest affirmare de vera illorum locorum à nobis memoratorum longitudine, nempe Fruenburgi, Montis regij, Francofurti, & Veneriarum. Ego quidem, ut verum fatear putò Veneriarum longitudinem esse inter 34. & 35. gradum ex auctoritate illorum, quos supra recensui,

Z

aucto-

auctorum, nec aliam ex obseruationibus certitudinem habeo. Origanus quoque suam accepit longitudinem ex Apiano recognito gr. 36. vt ipse affirmat, neque tamen eam ex obseruationibus veram esse comprobauit. Fruenburgum Prussiae ponitur à Copernico sub gr. 45. 30'. longitudinis, vt colligitur ex cap. 13. Libri Tertij Revolutionum, dum ponit Fruenburgum occidentaliorem vna hora ab Alexandria, cuius longitudo datur à Ptolemæo & ceteris Geographis grad. 60. 30'. Tandem verò Reinoldus nullam aliam sui loci longitudinem ponit, quam quæ in Apiano correctus & Gemma Frisio habetur, nimirum grad. 46. 45'. & mutuauit quoque eiusdem loci latitudinem ab eodem Gemma Frisio grad. 54. 17'. neque Reinoldus ex aliqua Eclipsium obseruatione comprobauit dictam longitudinem, quia nec latitudinem, quamuis sit operatio tenuissima de quo conqueritur Tycho Brahe pagina 75. Epistolarum Astronomicarum, vbi testatur se vnum è suis familiaribus misisse in Prassium ad explorandam Eleuationem Poli Montis regij, dum ita scribit. *Atque ex altitudinibus Solis, stellarumque illic multoties acquisitis deprehenditur Regio monti Prussiae eleuatio Poli gr. 54. 43'. proximè. Quod tibi vna indicandum duxi: si quidem Reinoldus Prutenicas Tabulas ad eum locum ordinauit, eiusque latitudinem gr. 54. 17'. scrupulis 26'. iusto minorem (Apiani erroneum Catalogum perperam imitatus) constituit.*

Hæc itaque est longitudo Montis regij, ad quam Tabulæ Prutenicæ exaratae sunt, quæ etiam confirmatur tum ex longitudine Alexandriae grad. 60. 30'. ab omnibus, nemine excepto, concessa, tum etiam auctoritate Messlini, & aliorum, sicut in priore mea Apologia dixi: Et in ipsa quidem totus scopus nostræ contradictionis fundatur, cum ex ea ipsa pateat, me congruè Tabulis Prutenicis fuisse vsum, dum differentiam temporis 50. minutorum obseruauerim, sicut præcipit Reinoldus, pateatque Origanum sex scrupulis temporis in reductione suarum Ephemeridum ad Meridianum Francofurtensem aberrasse. Qui certè vt hunc scopulum euitaret, quasi hoc nihili referat, in hæc verba impertinenter prorumpit. *Quid verò hæc ad controuersiam decidendam faciunt? Nihil prorsus. Hæres itaque adhuc tanquam imbellis musca aranearum telis inuoluta, &c.*

Nec tamen solidè confutat hoc, quod diximus, imò turpiter sese confundens modo negat, modo affirmat. Etenim cum ille in suo Catalogo supponat longitudinem Montis regij gr. 45. 15'. nihilominus apertè libimet contradicens ait. *Nam primo longitudes quasdam adducis, primam quidem Montis regij grad. 45. 15'. post alteram Fruenburgi in Prussia ex sententia Copernici grad. 45. 30'. quas nullibi inuenies me assumpsisse.* Et mirandum herclè est, Origanum perfricatæ aded frontis, & vecordis esse ingenij, vt rem, tam claram in ficiari audeat. Cur ergo ille non assumit Montis regij longitudinem grad. 45. 15'. dum huic vrbi in Catalogo suo assignat differentiam temporis min. 37? Nam si longitudini grad. 36. addan-

tur



tur grad. 9. 15'. competentes dictæ differentiæ prodibunt grad. 45. 15'. pro longitudine Montis regij ab ipso supposita. Sicut etiam si eidem longitudini grad. 36. addantur grad. 9. & semis pro min. 38. temporis, quæ ponuntur ab eodem Origano è regione Fruenburgi, prodibunt grad. 45. 30'. pro longitudine Fruenburgi, quam Origanus à Copernico elicit. Sed cum ex hoc sequatur Fruenburgum orientaliorem fieri ab Origano per quartam gradus partem respectu Montis regij contra omnes Geographicas Tabulas, & veritatem ipsam; cum re vera sit occidentior gradu vno cum quadrante ex numeris Reinoldi. Idcirco vt hoc absurdum euitaret Origanus, mutare coactus fuit in hac secunda editione differentiam temporis Fruenburgi, ponens tantummodo min. 33. quæ tamen in gradus conuersa 8. 15'. si addatur grad. 36. longitudinis Francofurti, patefaciet longitudinem Fruenburgi erroneam gr. 44. 15'. & vno gradu cum quadrante ab illa, quam posuerunt Copernicus, & Reinoldus discrepantem, quantum scilicet differunt erronea Origani longitudo Montis regij ab illa, quam ponit Reinoldus. Ceterum cum nequiuert Origanus negare, quod ex numeris Prutenicis non colligatur, Regio montis longitudinem fuisse acceptam à Reinoldo gr. 46. 45'. ex Gemma Frisio nititur inanibus verbis ipsam obumbrare veritatem, dum ait. *Miror verò, te differentiam longitudinis, quam Tabula Prutenica inter Regium montem Bovusie, & Alexandriam Aegypti 55'. horæ allegant, mihi obijcere, quam ego neuiquam eandem in Ephemeridibus meis constituo. Sed horæ vnius min. vnius, atque ita vicissim mihi asstringere, quæ ego nullibi scripsi: cum si tibi candidè mecum agere animus fuisset, meam potius, quam in Catalogo meo inter Alexandriam & Francofurtum differentiam hor. 1. 38'. posui cum tua, &c.* Cur igitur Origanus vult, me deserere Reinoldum in arguenda longitudine meridiani suarum Tabularum, & confugere ad ipsius Origani potius Catalogum dolosè suæ intentioni accommodatum? nec par erat me quoque relegare ad priorem meum Catalogum, cum à me in secunda Ephemeridum editione fuerit tanquam erroneus repudiat. Nemo certius indicare potest quanta sit vera longitudo Prutenicarum Tabularum, quam numeri ipsiusmet Reinoldi ex dicto locorum Catalogo, cum certò constet Reinoldum accepisse longitudinem Alexandriæ gr. 60. 30'. Non est autem obscurum, Origanum dolosè differentiam temporis inter meridianos iam dictos sumpsisse 61. minutorum temporis, vt saluaret falsam Montis regij longitudinem gr. 45. 15'.

Non desinit præterea Origanus me coarguere, quod ex longitudine Alexandriæ concludere voluerim longitudinem Montis regij, dicens. *Vana ergo & inepta est tua refutatio, quam à longitudine Alexandriæ Aegypti peris.* Nec tamen audet dicere, non fuisse acceptam à Reinoldo gr. 60. 30'. sicut à Ptolemæo, & ab omnibus accipitur. Et alibi extra rem dicit. *Nec quisquam Mathematicorum probabit Alexandriæ longitudinem, vt eam propo-*

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Prutenicæ  
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36. addan-  
tur

fuit Ptolemæus utriusque esse fundamentum (Copernici inquam & Mercatoris) inque hoc fundamento ambos consentire. Sed postea cogitur confiteri, quod prius negauerat, dum ait. Deinde licet libenter largirer de Reinoldo affirmari posse eum Ptolemæi longitudinem, quam Alexandria tribuit respectisse, quando differentiam longitudinis, quam Copernicus inter Fruenburgum, & Alexandriam unius horæ posuit, quinque minutis minuit, quibus orientaliorem statuit Regio montem Fruenburgum. Vnde 55'. ipsi distat Regio mons à meridiano Alexandria. Quibus sanè verbis mea rationi, & ipsi veritati Origanus prorsus sese accommodat, confirmans Reinoldum accepisse meridianum Montis regij 55. minutis horæ distantem à meridiano Alexandria. Sed sicut supra conclusimus meridianus Alexandria supponitur à Reinoldo grad. 60. 30'. Vnde sequitur Regium montem habuisse longitudinem de mente Reinoldi grad. 46. 45'. Itaque hæc Origani confessio mihi planè sufficit, nec ulterius quicquam ab ipso quæro, cum ad rem nostram nihil faciat, quod de Mercatore ille respondet, nec à me hoc fuit prolatum. Quinimo idem Origanus extra propositum loquitur in fine Primæ Partis Introductionis suarum Ephemeridum ultimo editarum pag. 112. dum ait. Ignoravit Ptolemæus Regio montem, & idè de eius meridiano non pronunciauit, & nihilominus Maginus contendit, rectè quidem meridianum Regio montanum respectu Alexandria, sed falsò respectu Venetiarum determinatum à Reinoldo, ludix enim certè, ut in alijs, sic in his hypothesebus & phantasia sua Maginus. Quomodo hic nugator vult inuerrere mea dicta, & ad sinistros sensus reducere, ut videatur adamussim, ac satis respondisse? Confer quæso benigne lector, quæ de longitudine Alexandria dixi in mea Apologia, cum his Origani responsionibus, & videbis protinus, quantum illæ alienæ sint à sensu meorum verborum. Non dixi ego, Ptolemæum cognouisse Regium montem Prussiae, nec dixi rectè fuisse meridianum eius respectu Alexandria determinatum: sed dixi, ex differentia temporis, quam Reinoldus posuit è regione Alexandria 55. minutorum, colligi necessariò, ipsum assignasse Regio monti grad. 46. 45'. in longitudine, quod toties repetere cogor, quoties in has Origani absurdas, ac insulas responsiones incurro. Scio enim, quod ipse Reinoldus nil certi habet de vera utriusque loci longitudine, cum falsus fuerit, se illas à probatioribus auctoribus accepisse.

Sed si Reinoldus statuit sui loci longitudinem gr. 46. 45'. ut Origanus ex hac confessione confirmat, cur alterauit Origanus differentiam temporis in suo Catalogo inter meridianum Montis regij & Alexandria statuens eam horæ unius & unius minuti? Certè non alia de causa, nisi ut prodeat longitudo Montis regij erronea gr. 45. 15'. qua tueri posset falsam suam reductionem motuum Prutenicorum Canonum, sex minutis temporis peccantem. Nam posita longitudine illa erronea datur differentia temporis min. 37. à meridiano Francofurtano, quam Origanus sequitur. Sed  
data



data genuina Tabularum Prutenicarum longitudine grad. 46. 45'. debet esse differentia temporis inter iam dictos meridianos min. 43. Itaque non potest excusari Origanus ab hoc errore, & non habere hoc commune cum ceteris hominibus, posse errare. Sed maior est error nolle ipsum errorem fateri, & in obstinatione sua persistere, & extra propositum respondere. Sed vide apertius Origani malitiam pag. 102. suarum Ephemeridum ultimo editarum, ubi dum confirmare intendit differentiam temporis inter meridianum Prutenicarum Tabularum, & Francofurtensem, falsum effingit exemplum, dum dicit: *Veluti queritur, quæ sit differentia meridianorum inter Francofurtum, & Regio montem Borussie, ad quem Tabule Prutenice constitutæ sunt.* Nam dum ait se accipere longitudes ab Apiano correcto, fingit longitudinem Montis regij legi in dicto libro gr. 45. 15'. cum legatur grad. 46. 45'. sicut videre licet in dicto Apiano recognito, & impresso Antuerpiæ anno 1584. apud Io. Bellerum ad insigne Aquilæ aureæ pagina 98. & etiam pag. 208. nec ex alia impressione, quod sciam, prodijt. Ex hoc itaque exemplo ad mentem Apiani correcto stabit differentia longitudinis min. 43. nec erit consona numeris Catalogi Prutenici, in quo re vera supponitur longitudo Francofurti gr. 37. 30'. ad quam Ephemerides Origani calculatæ sunt, & non gr. 36. Iudicet ergo æquus Lector, cuinam nostrum conueniat magis ille titulus falsarij, vel mihi prætermittenti nomē Mestlini, & alterius non catholici Theologi, præsertim quod illa nomina fuerint deleta ab hæreticæ prauitatis Inquisitore, dum mea scripta, ut moris est, reuideret, ob quam causam Origanus non veretur mihi illum titulum iniuste tribuere: Vel Origano potius ipsi, qui auctores falsò citat, & numeros erroneos pro libito sibi effingit. Quod facinus profectò à viris ingenuis, & literatis, præcipue verò Mathematicis debet esse alienum. Quod eò apertius patet, cum in priore editione dederit simile exemplum iisdemmet ferè verbis de cognoscenda differentia inter Francofurtum & Antuerpiam.

Ad obiectionem, quā mihi Origanus facit, quod cum sint meæ Ephemerides supputatæ ad meridianum occidentaliorem 50. minutis temporis à meridiano Prutenicarum Tabularum, & cum ex Geographia Mercatoris colligatur inter Regio montem Prussie, & Venetias differentia temporis min. 37. sequitur, si hæc Mercatoris differentia est vera, motus dictarum mearum Ephemeridum aberrare min. 13. temporis, quando eis uti volumus Venetijs. Hoc ei facile concedo, nec negari potest. Sed probet prius ipse Origanus, dari re vera hanc differentiam. Tunc verò huiusmodi error non mihi, sed Reinoldo imputabitur, ut in prima responsione dixi, & falsis locorum longitudinibus ob Geographiæ imperfectionem, quam omnes fatentur. Sed non ideo sequeretur Ephemerides meas falsas esse, sed esse supputatas ad alium meridianum ab illo Veneto differentem, idest ad meridianum occidentaliorem meridiano Montis regij

Z 3 gr. 12.

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Origanus  
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gr. 12. cum dimidio. Vnde patefacto prius meridiano Montis regij, patebit postea meridianus mearum Ephemeridum. Sed quis audeat declarare illum meridianum certa aded assueuratione, vt nil dubij relinquatur? Nemo quidem certè.

Præterea dico, quod quando auctoritati Mercatoris standum est quo ad longitudes Montis regij, & Venetiarum respectu mearum Ephemeridum: eidem standum quoque est quo ad longitudes eiusdè Montis regij & Francofurti respectu Ephemeridum Origani. Ait enim Origanus, vt supra retulimus. *Optimum verò est, vnum aliquem Geographiæ auctorem, & eum probatum sequi, cum diuersi diuersis vtantur principijs, &c.* Hoc itaque concessio vt decet, sequetur & ipsius Origani Ephemerides eadem de causa alicui errori esse subiectas. Nam cum à Mercatore detur longitudo Montis regij grad. 44. 5'. vt patet in ipsius Atlante ab Hondio aucto, si ab illa auferantur grad. 37. longitudinis Francofurti secundum eundem auctorem, prodibit vtriusque meridiani differentia gr. 7. 5', quæ æquiualeat minutis 28. temporis. Sed cum Origanus obseruauerit differentiam dictorum meridianorum ad minuta 37. dabitur 9. minutorum temporis error, nec dictæ Ephemerides erunt supputatæ ad meridianum Francofurtensem, sed in illo meridiano indigebunt correctione ob illa 9. minuta. Reuoluamus igitur hoc saxum in quam libuerit partem, semper cognoscemus non posse commodè iacere, atque sic incidemus in alias atque alias difficultates & absurda; quoniam ita fert Geographicum studium admodum incertum, & dubiè ab auctoribus pertractatum, etiam ipsomet Origano teste.

Non opus est præterea, vt eidem Origano iterum respondeam, cur ego in priore Catalogo ascripserim differentiam 35. minutorum temporis Regio monti Prussæ, cum tamen 50. minuta in reductione motuum mearum Ephemeridum obseruauerim. Nam id à me præstitum est in priore Apologia, nec eum decebat tot clamores excitare, cum à me prior ille locorum Catalogus ab Apiano primo impresso desumptus in dubium reuocatus fuerit sequente anno ab editione dictarum mearum Ephemeridum, nempe in Secundorum Mobilium Tabulis, vbi longitudes locorum recensui etiam ad mentem probatorum auctorum, restituendo præfertim longitudinem Montis regij ad gr. 46. 45'. vt in Reinoldo, & Venetiarum longitudinem ad gr. 34. 30'. Tandem verò cum denuo Typis meæ Ephemerides excusæ sunt Venetijs anno 1598. deleni penitus longitudes Apiani, & certiores cunctos reddere volui, me approbare longitudes, quas maior eruditorum pars sequebatur. Quæ Ephemerides me inconsulto paulò post impressæ denuo fuerunt à Sconuettero editionem Veneram prorsus imitante.

Vnde malignè agit mecum Origanus, dum ait. *Nam, & conuictus in proxima Sconuetteriana Ephemeridum editione, &c.* Hoc enim apertissimè menda-



mendacium prodit editio mearum Ephemeridum Veneta de anno 1598. ut diximus; in qua deleuimus prorsus Apiani longitudes erroneas, licet eas quoque suspectas reddiderim, non solum in meis Secundorum Mobilium Tabulis anno 1584. in lucem emissis; sed eomet anno 1583. quo Ephemerides meae Latinae publici iuris primum effectae fuerunt, editis scilicet tunc Ephemeridibus meis Italicis, ubi habetur separatus locorum Catalogus, & ab illo Apiani longè diuersus cum hac inscriptione Italica. *Vn'altra Taoula delle città & luoghi, cauata dall'Efemeridi di Pietro Pitato molto differente dalla sopradetta, quale molti affermano esser più prossima alla verità.* Sponte igitur reieci Apiani erroneum Catalogum, & non ab Origano conuictus, ac multo tempore prius quam cum ipso contenderem.

Ex his, quae hactenus diximus, concludi potest, nil certi posse hactenus haberi de meridianis locorum supra memoratorum, cui tuto, & confidenter standum sit, dicat quidquid velit Origanus, aut quicumque alius.

Sed hoc certum esse constat, cum Ephemerides meae supputatae sint ad meridianum 50. minutis occidentaliorem meridianum Montis regij Borussiae, seu Tabularum Prutenicarum; non ideo reiiciendas illas esse ob incertitudinem differentiae repositis inter meridianos Venetiarum, & Montis regij. Nam si haec ipsa aliter se habet, quam à nobis fuerit de Reinoldi sententia sumpta, fuerintque nobis cognita locorum longitudes, poterimus nihilominus colligere, quantum temporis sit addendum, aut auferendum, ut conuenienter iam dictis Ephemeridibus uti possimus. Simili modo concludendum est, cum Origani Ephemerides supputatae sint ad meridianum 37. min. temporis occidentaliorem Montis regij meridianum, si Francofurtum tanto intervallo non remouetur à Regio monte, poterit obseruari correctio ob euariationem.

Quo verò ad errores paucorum aliquot minutorum in meis Ephemeridibus compertos, sicut illos libenter fassus sum: ita futilem laborem, minimique ponderis in eis corrigendis tempus conterere, quod in meliora absumi potest, iudicaui. Nam quos in me notat errores Origanus insigniores & ad gradus accedentes, scias illos esse ex impressoris incuria, sicut facile videre est, vel ex similitudine aliqua numerorum, vel collatione facta cum vicinioribus diebus. & cum aduersus Scalam Gazanus pro me scripsit, tabellam publicauit errorum ex impressione mearum Ephemeridum ab anno 1591. usque ad annum 1600. pagina scilicet 17. quam tabellam si Origanus vidisset, minimè recensuisset illos, meos errores, quos ex collatione Ephemeridum Scalae cum meis animaduertit.

Dico enim iterum syncerè, & quisque sanæ mentis hoc idem fatebitur, meas scilicet Ephemerides tales esse, ut nil referret, alias iterum esse supputandas ex iisdem fundamentis, ac Prutenicis Tabulis. Enimverò quicumque ante me Ephemerides ediderunt, grauiora profectò errata commiserunt, neque hic Reinoldum ipsum excipio Tabularum Prutenicarum auctorem,



auctorem, cuius Ephemerides extant ad annos 1550. & 1551. supputata, nec quemcumque alium. De Mestlino Mathematico eximio, & Astro nomo accuratissimo patet in responsione Gazani ad Iosephum Scalam, cuius differentias à meis Ephemeridibus ille notat pluries ad decem, 15. & interdum 20. minuta, quod tunc non animo ipsum Mestlinum laedendi fuit factum, sed ut pateat, me non fuisse alijs negligentiorum, qui apud literatos viros benè audiunt, ut sileam de Stadio, ac etià de alijs qui Ephemerides ex Alphonsino calculo collegerunt. Quin & ipse Origanus grauioribus me commisit errores in annis illis primæ suæ editionis, in quibus mearum Ephemeridum exemplari caruit quos falsus fuit dicens. *Ego sanè & ipse fateor me per alias occupationes eam semper sedulitatem impendere nequiuisse, qua opus est in Ephemeridibus conficiendis.* Sed ob virum maleuolum, cur me quoque nō eodem modo excusauit? Nam & ego homo sum, distinctiorque occupationibus, & negocijs sum implicatus. Optimè nouit Origanus, quod Ephemeridum compilatio non tanti est oblectamenti, ut eo abducatur à semet homo: sed phlegmatici, patiensque viri munus est, exiguusque est profectus, qui è tali labore exantlato acquiritur. Scitur enim idem nouissimo, quod primo die, hoc vno tantum excepto, quod in dies exercitior & assuetior in supputationibus euadit homo. Et nisi spes foret studiosis gratificandi, nemo huic insuauis labori non succumberet. Nam ut verum fatear idem profectò est Ephemerides conficere, perinde, ac si quis rotam circumducens ad idem sæpe sæpius redeat. Nam quicumque scit Ephemerides vnus anni construere, sciet etiam pro centum annis & pro pluribus, cum sit eadem in omnibus operatio. Ad quid igitur ventoso gloriæ curru circumagi, intumescereque ob huiusmodi labores non nisi mediocrem præ se ferentes eruditionem in Mathematicis, imo in sola Astronomia? quod in Origano, tam apertè conspicitur, dum se culmen gloriæ assecutū fuisse arbitratur ob suas Ephemerides, quas veller haberi exactiores, & omnibus numeris absolutiores ceteris hucusque editis eden disvè. Qui sanè laboriosus, & operosus scopus nequaquā collimatu difficilis est, dum quis se totum huic operationi applicare curat. Bene cognoui, quod licet ille falsus fuerit non leues errores à se commissos in illis decē, quos dixi, annis, optat tamen, ac exposcit hanc prærogatiuam, se illos prius nouisse quàm à me fuerit de illis admonitus, ambitiosè præ se ferens, quod magna cura suas recognouerit Ephemerides. Hæc est Origani superbia, quod vult haberi irreprehensibilis, & quod nulla erroris macula sibi inuri possit, quam ille ipse prius non viderit. Verum & me maximè desidia & socordia inculat, quod eos corrigere renuerim. Fateor ego quidem ingenuè, me hos leues paucorum minorum errores neglexisse, & pro nihilo habuisse, postquam mihi perspectum est, Copernici calculum à recto deuiare ad integros gradus non aliter quàm faciant illi, qui pulchrius nō laborant reddere ædificium cito ruiturum. *Quia potius omnem impendi curam,*



curam, ac laborem in præstolanda editione correctionis motuum Tycho-  
nica. quod patet ex literis à me ad Tychonem & Keplerum conscriptis,  
quò postea novas, & exactiores Ephemerides ex illo nouo calculo con-  
struere possem, nisi prius me quisquam alius hoc labore liberaret. Qua de  
causa superiores Epistolas Kepleri, ac meas de hoc negotio tractantes pu-  
blicare volui. Contrà verò Origanus omnem curam, studiumque collo-  
cauit in suis Ephemeridibus Prutenicis, perinde ac in labore perenni, id-  
que quasi vt vir, cui desit, vbi tempus insumat, nisi in faciendis ijs, quæ  
magna ex parte saltem ab alijs factitata fuere satis exactè, & quantum ab  
instanti pascetur necessitate, donec prodirent nouæ Ephemerides celo  
congruentiores. Quinimo neque hoc contentus cò demeritæ prolapsus  
est, vt ad multos annos illas extendat, quo scilicet magis studiosi super-  
fluis his expensis grauerentur, præsertim in libro post paucos annos nul-  
lius vsus, superuenientibus nouis ex recentissimo Tychonis & Kepleri  
calculo & observationibus. Vnde & ille quoque contabescet, serò intuens  
pessum ire labores suos, frustraue tempus inaniter absumptum deplo-  
rans. Prætereo quod in luminarium Tycho-nicorum motibus, & in cal-  
culo Eclipsium Origanus minus accuratus fuerit ob causas à nobis alibi  
expressas. Nec illi continget, vt durent & præ manibus habeantur Èphe-  
merides illius ob ingentem & ad nauseam vsque prolixam introductionē,  
ac nugis, superstitiosisque & falsis Arabum Astrologorū præceptioni-  
bus refertam, vt ceteris peritiorē sese ostentaret, vbi eo superbiæ semet ex-  
tulit, vt vix sensu nedum calamo perstringi queat. Talia verò esse Origa-  
ni scripta non obscurè patet, dum ab ipsa statim editione sacrosanctæ Ec-  
clesiæ Catholice Romanæ fuerint suspecta, nec sine expressa sanctæ In-  
quisitionis licentia legenda concedantur, idque viris solummodo doctri-  
na & pietate præstantibus.

Quid de Origani incredibili, ac insolenti audacia dicendum? qua me  
in discrimen nominis & famæ deuocare cõtendit, dum meos labores con-  
temnere, ac vilipendere studet, appellans contumeliosè Centones, meos  
Secundorum Mobilium Canones, atque vocans me ieiunum Primi Mo-  
bilis scriptorem nondum intelligentem, cui propriè competat motus pri-  
mus. Certè in hoc liuore inuidiaque se disrumpi non obscurè declarauit,  
qui odio quodam insatiabili erga me nil aliud molitur, quàm vt mea scri-  
pta, quæ hætenus a professoribus & doctis viris comprobata fuerunt, ab  
ijsdem in posterum reijciantur, & contemnantur, & sola ipsius scripta cir-  
cumferantur, ac legantur. Sed decipietur profectò, cum nondum ipse tan-  
ta & talia, quanta & qualia ego, ediderit: si quidem ille ipse nondum è  
gyro Ephemeridum pedem remouere tentauit, hoc est è labore tyronum  
in rebus Astronomicis, & mediocris ingenij, ac doctrinæ.

Super sedeo perpendere, ac confutare aliquot petulantia verba, ac ma-  
ledicta, quæ in me Origanus euomuit, & quibus responsionem suam tan-  
quam

r. supputa-  
o, & Astro  
Scalam, cu  
em, 15. &  
um læden-  
n, qui apud  
qui Ephe-  
ganus gra-  
, in quibus  
as. Ego sanè  
pendere ne-  
m maleuo-  
omo sum,  
otimè nouit  
tamenti, vt  
munus est,  
tur. Scitur  
to, quod in  
Et nisi spes  
cumberet.  
e, perinde,  
m quicum-  
ntum annis  
igitur ven-  
labores non  
imo in sola  
n se culmen  
ellet haberi  
editis eden  
imatu diffi-  
ne cognoui,  
in illis decē,  
se illos prius  
ferens, quod  
ni superbia,  
ila sibi inuti-  
è defidiæ &  
idem inge-  
& pro nihilo  
n à recto de-  
thrius nō la-  
em impendi  
curam,

quam corona redimiuit, cum probi viri sciant hoc esse munus inurbano-  
rum, qui, dum nequeunt se continere intra modestiæ fines, ad iurgia &  
iniuriosa verba confugiant, & dum alios sic vincere nituntur, sese palam  
omnibus victos declarent. Et non parum mirandum est, ipsum hominem  
Germanum non puduisse mihi homini Italo ebrij titulum dare, quasi co-  
dem ille non possit iustiùs, ac propriùs nomine compellari.

De erroneis aspectibus ab Origano positis quàm sit absurda, & ridicu-  
la responsio, (mitto verbosam, insolentem, ac maledictis scatentem) ne-  
mo est, dum Astrologiæ prima saltem rudimenta degustauerit, qui non  
intelligat: & Origani vicem doleo, qui se Mathematicum profitetur, atque  
huiusmodi insulam, ac erroneam responsionem dedisse non erubuit. Ni-  
hilominus bonus ille vir non veretur mihi, cum ipsum de his absurdis re-  
prehenderim, ruditer adedò pinguem iniungere, quod nesciuerim distin-  
guere inter Astrologiam & Astronomiam.

Recurras Lector benigne rogo ad caput illud in Introductione Ephem-  
eridum Cipriani De Fortitudine & debilitate Planetarum tanquam ad  
fontem, vbi Origanus collegit, quæ capite 4. 5. & 6. Tertiæ Partis suæ pri-  
mò impressæ Introductionis scripsit, tribuendo numeros fortitudinum,  
& debilitatum singulis dignitatibus & accidentibus, sicut Ciprianus fe-  
cit. Sed tamen cum de Aspectibus Origanus in fine dicti capitis sexti tra-  
ctat, credens supplere defectui Cipriani, tanquam si ille oblitus esset, om-  
nes aspectus recensere, addit illos impossibiles aspectus. Enimverò dum  
Ciprianus dicit, partilem trinum  $\Upsilon$  vel  $\varphi$  ad aliquem Planetam impor-  
tare 4. testimonia fortitudinis, &  $\ast \Upsilon$  vel  $\varphi$  ad eundem Planetam impor-  
tare tria testimonia fortitudinis. Origanus ad eius imitationem sic  
scribit. *Sic ex beneficis aspectibus  $\Delta \Upsilon \varphi$  4. fortitudinis testimonia, tri-  
goni verò  $\Upsilon \varphi \varphi$ ,  $\varphi \varphi \varphi$ , &  $\Upsilon$ , &  $\varphi$ , Item  $\Upsilon \varphi \varphi$  3, & cet.*  
Hæc sanè est ampliatio doctrinæ Cipriani ab Origano facta, quæ nedum  
erronea est quo ad impossibilitatem aspectuum, sicut aliàs diximus, verù  
etiam ob alias causas, quas missas facimus, ne novas concitemus lites, dum  
finem his nostris controuersijs imponere studemus. Quàm enim sit ab-  
surdus sensus, & ab omni veritate alienus, quod hi aspectus aptandi sint  
directionibus, vt Origanus responderet, nemo est, qui non norit; esset enim  
hoc còtra institutum non tantum ipsius Cipriani, qui illud caput scripsit,  
vt perpendi posset status & fortitudo Planetarum singulorum in themate  
seu figura cæli radicali, sicut ille exemplis declarat: sed etiam contra ip-  
siusmet Origani verba paulò ante prolata, dum ait. *Ceterum vt appareat  
quomodo Planetæ vel coniuncti, vel radio sese intuentes vires, vel intendunt, vel  
remittant, &c.* Vbi apertè confirmat, quæ Leouitijs scripsit. Contrà ve-  
rò licentiùs, ac inconsideratius non poterat respondere, vt suam obtege-  
ret ignorantiam, quam ille fecerit, dum fastuosè ait. *Scribunt Astrologi,  
& ego cum illis Planetas omnes à loco radicali, &c.* Refugiendo scilicet ad di-  
rectionum



rektionum asyllum, cum de his ne verbum quidem vnquam fecerit, in omnibus illis capitibus. Nam quid sibi vult dicere in directionibus, quod trinus ♀ & ☿ importet 3. fortitudinis testimonia? neuter enim eorum solet ordinariē pro significatore capi, & dato quod fieret, vt verbi gratia si sumeretur Venus significatrix, & ipsa ad Δ ☿ pertingeret, quid sibi vult, quod importet tria fortitudinis testimonia? Hoc nouum Astronomiæ documentum me non intelligere libenter fateor, sicut nec alios intelligere ambigo. Discat itaque Origanus erronea & absurda effari, & male se tueri fulero vehementiorum absurdorum errorumque, quàm emendare, sicut poterat, sua scripta, delendo in hac secunda editione dictos erroneos aspectus. Cui ergo non palam est tumens Origani natura, dum ne veritati acquiescat varijs implicatur & luctatur absurdis.

Tandem verò, vt finem huic responsioni imponamus, ad Scalam nunc sermo noster conueniens est, pro quo Origanus se respondere credidit, dicens. *De Iosepho vero Scala, quem furti arguis, &c.*

Respondeo, me istum ex ore tuo vicisse, quando fateri coactus fuerit, se omnes aspectus, omnesque latitudines à meis Ephemeridibus exarasse, atque etiam cum supputasset motus ad dies quosdam, à meis postea Ephemeridibus motus ad intermedios dies excepit. Responsio eius impressa est Venetijs apud Venturam Galuanum anno 1590. sub nomine Io. Antonij Quinquerugij aduersus Io. Baptistam Gazanum, qui meas partes suscipiens, scripsit prius contra ipsum Scalam Italico sermone Animaduersionem Bononiæ apud Alexandrum Benacium anno 1589. impressam. Et idem Gazanus replicat aliam responsionem eodem anno 1590. quæ Venetijs impressa fuit à Gratiolo Precacino. Pagina itaque tertia prope finem in hunc modum loquitur Quinquerugius. *Fatetur Scala Lunæ aspectus ad Planetas & Planetarum inter se, eorumque latitudines ex Ephemeridibus sumpsisse mutuas.* Et idem Quinquerugius fatetur pluries, Scalam ad aliquot dies motus supputasse; & intermedios dies à Magino transcripisse, minime cognoscendo errata impressionis, & præsertim in fine paginæ 9. vbi sic ait. *Nam (vt sepius dixi) dummodo Scalæ constaret per suas has computationes motus Magini, intermedios dies ab eo æsumpsit.* Et si forte in illis intermedijs diebus in Magini Ephemeridibus error aliquis typographi extiterit, qui vel grauioribus distentum curis, vel quia exigui momenti, latere potuit. Sanè Scala à me apertè cuius furti perspicuus se ab illis respondendo non potuisse excusari, aded melancholica affectione paulò post exagitatus, animique angore vexatus est, vt in grauiissimum morbum inciderit, fatisque concesserit 30. suæ ætatis anno nondum absoluto. His huic responsioni finis sit impositus.

VENETIIS, M DC XIV.

VIRTUTI SIC



REDIT INVIDIA.

*Ex Officina Bartholomæi Rodelle, Damiani Zenarij heredis,  
sub candentis Salamandre signo.*



XIV.

CEDIT INVIDIA.

heredis,

















